1st Edition

SHARP

SERVICE MANUAL

Issued: June 2006

LCD COLOUR TELEVISION

PAL B/G, I / SECAM B/G, D/K, L/L' SYSTEM COLOUR TELEVISION



MODELS LC-32GA8EE/EF/EI/EK/RU LC-32BV8EE/EF/EI/EK/RU LC-37GA8EE/EF/EI/EK/RU LC-37BV8EE/EF/EI/EK/RU

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SERVICE MANUAL UPDATE LOG SHEET Technical Report No. Application Cause / Solution Part No. Page No. Technical Bulletin No. Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc. If only part number changes are required, just change part number directly the part number in the Parts Listing Section.

ELECTRICAL SPECIFICATIONS

Specifications

ltem				32" LCD COLOUR TV, Model: LC-32GA8E, LC-32BV8E	37" LCD COLOUR TV, Model: LC-37GA8E, LC-37BV8E			
LCD panel				32" Advanced Super View & BLACK TFT LCD	37" Advanced Super View & BLACK TFT LCD			
Number of	dots			3,147,264 dots (1366 × 768 × 3 dots)				
Video Colo	ur Syste	em		PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	0			
TV	TV-S	standard	(CCIR)	B/G, I, D/K, L, L'				
Function		Receiving VHF/UHF Channel CATV		E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR	Joh			
	Cha			Hyper-band, S1-S41ch				
	TV-T	uning Sy	/stem	Auto Preset 99 ch, Auto Label, Auto Sort				
	STE	REO/BIL	INGUAL	NICAM/A2				
Brightness				450 cd/m ²				
Backlight li	ife			60,000 hours (at Backlight Standard positi	ion)			
Viewing an	ales			H : 176° V : 176°				
Audio amplifier				10W × 2				
Speaker				130 mm × 60 mm				
Terminals	Rear	Antenn	a input	UHF/VHF 75Ω Din type				
		RS-232C EXT 1 EXT 2 EXT 3		9 pin MINI-DIN male connector				
				SCART (AV input, Y/C input, RGB input, TV output)				
				SCART (AV input/output, Y/C input, RGB input, AV Link)				
				S-VIDEO (Y/C input), RCA pin (AV input)				
		EXT 4		Ø 3.5 mm jack (Audio input), 15 pin mini I	D-sub (PC/Component)			
		EXT 5 OUTPUT		HDMI, Ø 3.5 mm jack (Audio input)				
				RCA pin (Audio)				
		Headp	hones	Ø 3.5 mm jack (Audio output)				
OSD langu	age			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/Russian/Polish				
Power Rec	quireme	ent		AC 220-240 V, 50 Hz				
Power Cor	nsumpti	on		130 W (0.9 W Standby) (Method IEC60107)	158 W (0.9 W Standby) (Method IEC60107)			
Weight	***			17 kg (Display only), 19 kg (Display with stand)	20.5 kg (Display only), 23 kg (Display with stand)			
Operating	tempe	rature		0°C to +40°C				

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for
product improvement without prior notice. The performance specification figures indicated are nominal values of production
units. There may be some deviations from these values in individual units.

NOTE

Refer to inside back cover for dimensional drawings.

Optional accessories

The listed optional accessories are available for the LCD colour TV. Please purchase them at your nearest shop.

 Additional optional accessories may be available in near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

	No.	Part name	Part number
	1	Wall mount bracket (LC-32GA8E, LC-32BV8E, LC-37GA8E, LC-37BV8E)	AN-37AG2
١	2	9 pin D-sub/MINI-DIN conversion cable	AN-A1RS

PC compatibility chart

Re	solution	Horizontal Frequency	Vertical Frequency	VESA Standard
VGA	640 × 480	31.5 kHz	60 Hz	1
SVGA	800 × 600	37.9 kHz	60 Hz	1
XGA	1024 × 768	48.4 kHz	60 Hz	1

VGA, SVGA and XGA are registered trademarks of International Business Machines Co., Inc.

NOTE

 This TV has only limited PC compatibility, correct operation can only be guaranteed if the video card conforms exactly to the VESA 60Hz standard. Any variations from this standard will result in picture distortions.

Cautions regarding use in high and low temperature environments

- •When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.

 Storage temperature: -20°C to +60°C.



IMPORTANT SERVICE SAFETY PRECAUTION

Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

- 1. For continued safety, no modification of any circuit should be attempted.
- 2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE

F701 (4A / 250 V)

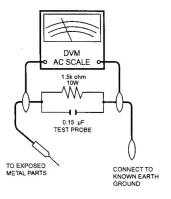
BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

- 1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
- 2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
- 3. To be sure that no shock hazard exists, check for leakage current in the following manner.
- Plug the AC cord directly into a 220~240 volt AC outlet. (Do not use an isolation transformer for this test).
- •Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
 - •A true RMS reading multimeter should be used for this test, especially where the equipment uses a switch mode power supply which may result in very non-sinusoidal leakage current.
 - •Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 1.05V peak (this corresponds to 0.7 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " $\hat{\Lambda}$ ".

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1 Employing lead-free solder

"ALL PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder. Example:



Indicates lead-free solder of tin, silver and copper.

In the case of LC-37GA8E, for the Inverter PWB Units the type used is nickel, so they are marked as LFn:



Indicates lead-free solder of tin, silver and nickel.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

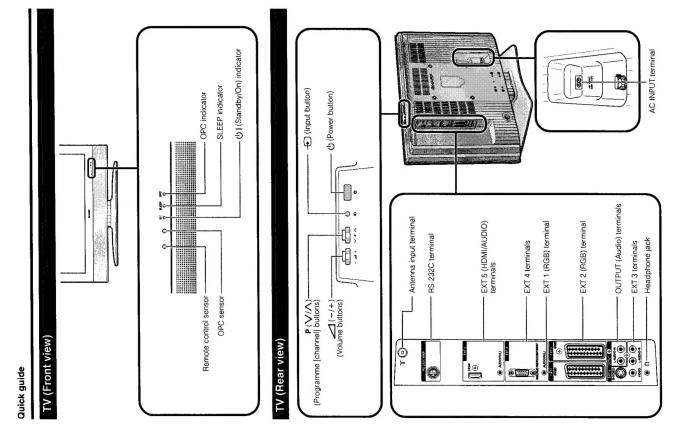
Be careful when replacing parts with polarity indication on the PWB silk.

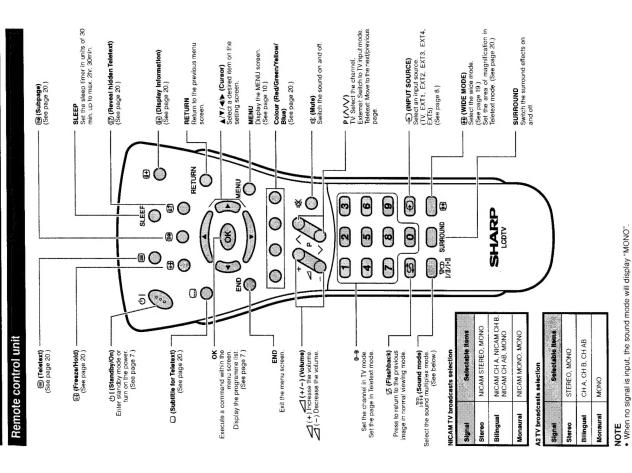
Lead-free wire solder for servicing.

Part No.	*	Desc	ription	Code
ZHNDAi123250E	J	φ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	φ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	φ 1 .0mm	1kg(1roll)	BM

Quick guide

OPERATION MANUAL





Using external equipment

Setting the input source

To view external source images, select the input source using 🕘 on the remote control unit or TV.

The cables marked with * are commercially available items.

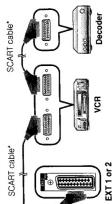
Connecting a VCR

your VCR supports TV-VCR advanced AV Link systems, you can connect the VCR to the EXT 2 You can use the EXT 1 or 2 terminals when connecting terminal of the TV using the fully-wired SCART cable. VCR and other audiovisual equipment.

AUDIO cable*

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S-video cable*



- TV-VCR advanced AV Link systems may not be compatible
- with some external sources. TV-OUT from EXT5 (HDMI) is selected as the input.

• EXT 3: The S-VIDEO terminal has priority over the VIDEO terminals.

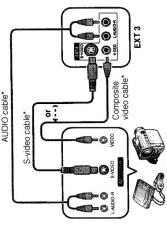
3 RCA to 15-pin D-sub adapter (Supplied)

> Component cable*

> > 1300

Connecting a game console or camcorder

A game console, camcorder and some other audiovisual equipment are conveniently connected using the EXT 3 terminals.



Game console Camcorder

• EXT 3: The S-VIDEO terminal has priority over the VIDEO terminals.

You can use the EXT 2, 3, 4 or 5 (HDMI) terminals when connecting to a DVD player and other Connecting a DVD player audiovisual equipment.



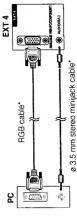
• In cases when the decoder needs to receive signal from the TV make sure to set "Decoder" to "EXT" in the Programme Setup "Manual Adjust" menu. (See page 15) • Do not connect the decoder to the EXT 2 terminal.

Connecting a PC

Use the EXT 4 terminals to connect a PC.

0

video cable*



EXT 4 ø 3.5 mm stereo minijack cable* RGB/DVI conversion cable* S ٩

MUDIORAL)

ø 3.5 mm stereo minijack cable*

٩ Ó

DVD player

- The cables marked with * are commercially available
- The PC input terminals are DDC1/2B-compatible.
 Refer to page 23 for a list of PC signals compatible with
- Macintosh adaptor may be required for use for some Macintosh computers.
- When connecting to a PC, the correct input signal type is automatically detected.

HDMI cable,

Using AV Link function

This TV incorporates three typical AV Link functions smooth connections between the TV and other audiovisual equipment.

You can use the EXT 1 terminal when connecting a

Connecting a decoder

Jsing external equipment

decoder and other audiovisual equipment.

One Touch Play

While the TV is in standby mode, it automatically turns on and plays back the image from the audiovisual

source (e.g. VCR, DVD)

has the WYSIWYR button, you can automatically start recording by pressing the WYSIWYR button. When the remate control unit of the connected VCR

WYSIWYR (What You See is What You Record)

Decoder

Preset Download

audiovisual equipment (e.g. VCR) via the EXT 2 Automatically transfers the channel preset information from the tuner on the TV to the one on the connected terminal.

- Refer to operation manuals of each external equipment for the details.
- wired SCART.

 The use of the AV Link function is only possible if the TV-set has enforced a complete auto-installation with the Only works when the audiovisual equipment is connected to the EXT 2 terminal on the TV with AV Link via a fully
- The availability of the AV Link function depends on the audiovisual equipment used. Depending on the manufacturer and type of equipment used, it is possible connected audiovisual equipment (page 7, Initial auto that the described functions may be completely or partially installation) unusable.

EXT 5

input the Audio signal here.

When using an HDMI-DVI conversion adapter/cable

AUDIO(RAL)

When connecting an HDMI-DVI conversion adapter/cable to the HDMI terminal, the image may not come in clearly.

DVD player

Quick guide

Attaching the stanc

Before performing work spread cushioning over the base area to lay the TV on, making sure the area is completely flat. This will prevent it from being damaged.

Before attaching (or detaching) stand, unplug the AC cord from the AC INPUT terminal.

Confirm the 8 screws supplied with the TV.

Short screws (×4) (used in step 2)

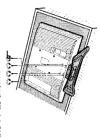
Long screws (×4) (used in step 4)

0-0-0-0-

Attach the two parts of the stand unit to each other using the 4 short screws as shown. N

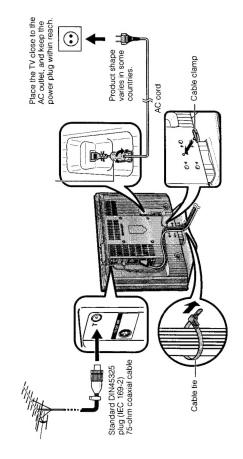
Insert the stand into the opening on the bottom of the TV. က

Insert and tighten the 4 long screws on the rear of the TV as shown. 4



To detach the stand, perform the above steps in reverse order.

Setting the TV



Setting the TV on the wall

- Installing the LCD Colour TV requires special skill that should only be performed by qualified service personnel.
 Custonners should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting
 or mounting that results in accident or injury.
 You can ask a qualified service personnel about using an optional bracket to mount the TV to the wall.

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	 Check if you pressed (b) I on the remote control unit. (See page 7.) If the indicator on the TV lights up red, press (b). Is the AC cord disconnected? (See page 3.) Check if you pressed (b) on the TV. (See page 7.)
Unit cannot be operated.	 External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
Remote control unit does not operate.	 Are batteries inserted with polarity (+, -) aligned? (See page 4.) Are batteries worn out? (Replace with new batteries.) Are you using it under strong or fluorescent lighting? Is a fluorescent light illuminated to remote control sensor??
Picture is cut off.	 Is the image position correct? (See page 17.) Are screen mode adjustments (4:3 Mode/WSS) such as picture size made correctly? (See pages 17 and 19.)
Strange colour, light colour, or dark, or colour misalignment.	 Adjust the picture fone. (See pages 12 and 13.) Is the room too bright? The picture may look dark in a room that is too bright. Check the colour system setting. (See pages 15 and 18.) Check the HDMI Setup setting. (See page 18.)
• Power is suddenly turned off.	 The unit's internal temperature has increased. Remove any objects blocking vent or clean. Check the power control setting. (See page 14.) Is sleep timer set? Press SLEEP on the remote control unit until it sets to Off.
• No picture.	 Is connection to other components correct? (See page 8 and 9.) Is input signal type selected correctly after connection? (See page 18.) Is non-compatible signal being input? (See page 23.) Is picture adjustment correct? (See pages 12 and 13.) Is the antenna connected properly? (See page 3.) Is the antenna connected properly? (See page 17.)
• No sound.	 is the volume too low? (See pages 5 and 6.) Make sure that headphones are not connected. (See page 6.) Check if you pressed a\(\) on the remote control unit. (See page 5.)

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal
 - a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Storage temperature: -20° C to $+60^\circ$ C.

IMPORTANT NOTE ON RESETTING THE PIN

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.

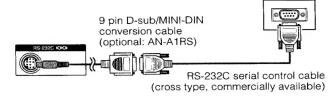
Appendix

RS-232C port specifications

PC Control of the TV

When a program is set, the TV can be controlled from the PC using the RS-232C terminal. The input signal (PC/video) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing. Attach an RS-232C cable cross-type (commercially available) to a 9 pin D-sub/MINI-DIN (optional: AN-A1RS) for the connections.

 This operation system should be used by a person who is accustomed to using PCs.



Communication conditions

Set the RS-232C communications settings on the PC to match the TV's communications conditions. The TV's communications settings are as follows:

- Baud rate: 9,600 bpsData length: 8 bits
- Stop bit: 1 bit · Flow control: None
- · Parity bit: None

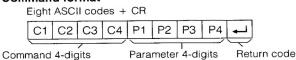
Communication procedure

Send the control commands from the PC via the RS-232C connector.

The TV operates according to the received command and sends a response message to the PC.

Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

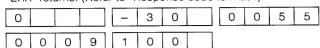
Command format



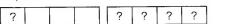
Command 4-digits: Command. The text of four characters. Parameter 4-digits: Parameter 0 - 9, ×, blank, ?

Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that four values are input for the parameter.)

When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".)



When "?" is input for some commands, the present setting value responds



Response code format

Normal response



Problem response (communication error or incorrect command)



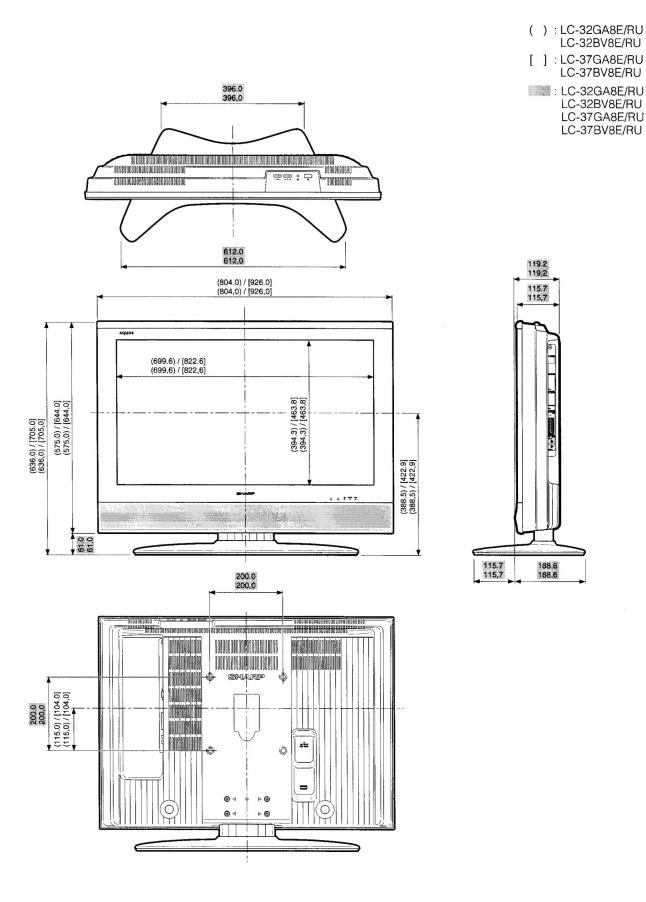
Commands

CONTROL ITEM	CC	MM	IAN	D	PAI	AAF	AET	EF	1	CONTROL CONTENTS
POWER SETTING	Р	-	_	R	0	_	_	L	-	POWER OFF
INPUT SELECTION A	1	$\overline{}$		D	-	-	-	-	+-	INPUT SWITCHING (Toggle)
	4	T	V V	DD	-	_	-	-	$\overline{}$	TV (CHANNEL FIXED)
	-	A	v	D	?	?	?	?	_	EXT1 – 5 (1 – 5) 1 to 5, ERR (TV)
CHANNEL	Б	c	ċ	Н	•	٠	Ė	Ė	-	TV DIRECT CHANNEL (1 – 99)
	D	С	С	Н	?	?	?	?	-	1 to 99
	С	Н	U	Ρ	_	_	_	L	-	CHANNEL UP
	С	Н	D	W	_	_	_	_	4	CHANNEL DOWN
INPUT SELECTION B	Ц	Ν	Р	1	0	-	_	L	4	EXT1 (Y/C)
	Ш	Ν	Р	1	1	-	-	-	_	EXT1 (CVBS)
	1	N	Р	1	2	-	-	ŀ	_	EXT1 (RGB)
	-	ZZ	P	1	?	?	?	1	_	0 to 2
	-	2 2	Р	2	1	-	-	t	_	EXT2 (Y/C) EXT2 (CVBS)
	İ	N	P	2	2	-	-	†	+	EXT2 (RGB)
	H	Z	P	2	?	?	?	1	\rightarrow	0 to 2
	T	N	Р	3	0	_	1_	1.	_	EXT3
		Ν	Р	4	0	-	_	T.	_	EXT4 (RGB)
	1	Ν	Р	4	1	_	_	Ī.	_	EXT4 (COMPONENT)
	1	Ν	Р	4	?	?	?	F	?	0 to 1
	1	Ν	Р	5	0	_	-	1	-1	EXT5 (HDMI)
AV MODE SELECTION	А	٧	М	D	0	-	-	1	-	AV MODE SELECTION (Toggle)
OLLEG HON	A	٧	М	D	1	-	-	1	-	STANDARD
	A	٧	М	D	2	-	+-	+	=	SOFT
	A	<u>v</u>	М	5	3	-	+-	ł	-	ECO
	A	V	M	0	5	+-	+-	۲	+	DYNAMIC
	A	v	M	+	?	?	?	+	?	1 to 5
VOLUME	v	ō	L	м		1	Ť.	t	+	VOLUME (0 – 60)
	v	0	L	М	?	?	?	1	?	0 to 60
POSITION	Н	Р	0	S	*	*		_	_	H-POSITION AV (-10-+10)
	Н	Р	0	S	?	?	?		?	AV (-10~ +10)
	V	Р	0	S	*	*		I	200	V-POSITION AV (-20 - +20)
	٧	Р	0	S	?	?	?	1	?	AV (-20-+20)
	С	L	C	K	*	*	Ŀ	1	_	CLOCK (0 - 180)
	С	L	C	_	_	+	1 3	1	?	0 to 180
	P	+	_	+	+	+	-	+	=	PHASE (0 - 40)
WIDE MODE	P	H	_	1	+	+-	1 ?	+	?	0 to 40
WIDE WIDE	W	+	D	+-	_	+	+-	+	-	WIDE MODE (Toggle) NORMAL (AV)
	W	+	10	-	-	+-	+	+	-	ZOOM 14:9 (AV)
	W	+	tō	$\overline{}$	_	_	+	+	_	PANORAMA (AV)
	w		D	-	+	+-		1	_	FULL (AV)
	W	1	D	E	5	-	T	Ī	_	CINEMA 16:9 (AV)
	W	1	0	E	6	L	Ι.		_	CINEMA 14:9 (AV)
	W	1	D	E	9	1	4.	_	_	NORMAL (PC)
	W	_	D	+-	_	_	_	4	_	FULL (PC)
NUTE .	W	-	10	_	_	_	? /	?	?	1 to 10
MUTE	N	_	_	_	_	\neg	+	-		MUTE (Toggle)
		1 4	_	_	\neg	$\overline{}$	+	-	-	MUTE ON
	N	$\overline{}$	$\overline{}$	_	_	\neg	? .	?	?	1 to 2
SURROUND	A	\neg	\neg	_	,	_	+	+		SURROUND (Toggle)
00		C	$\overline{}$	\neg	$\overline{}$	_	1	_	_	SURROUND ON
	A	\neg	$\overline{}$	\neg	/ 2	-			_	SURROUND OFF
	A	\neg	_	_	_	$\overline{}$?	?	?	1 to 2
AUDIO CHANGE	A	$\overline{}$	\neg	_	_]	1		_	SOUND SELECT (ST/Bilingual/mono)
SLEEP TIMER	C) F	7	N	1			_	_	OFF
	C	F		1	1	1	_	_	_	30 m
	_	F	-	_	\neg	2	-	_	_	1 h 00 m
	$\overline{}$	F	\neg	\neg	$\overline{}$	3	-	_	_	1 h 30 m
		1	_	\neg	_	4	-	_		2 h 00 m
	_) F	_	_	$\overline{}$	5	-	_	-	2 h 30 m
) [_	_	_	_	?	?	?	0 to 150
TEVT	- 1 -	T E	1	_	\neg	1	+	-	-	TEXT OFF
TEXT	-	Π.	- 1 -							
TEXT		r E	_	_	$\overline{}$	\rightarrow	2	2	2	TEXT CHANGE (Toggle)
TEXT		r i	=)	Χ.	Г	\rightarrow	\rightarrow	?	?	

NOTE

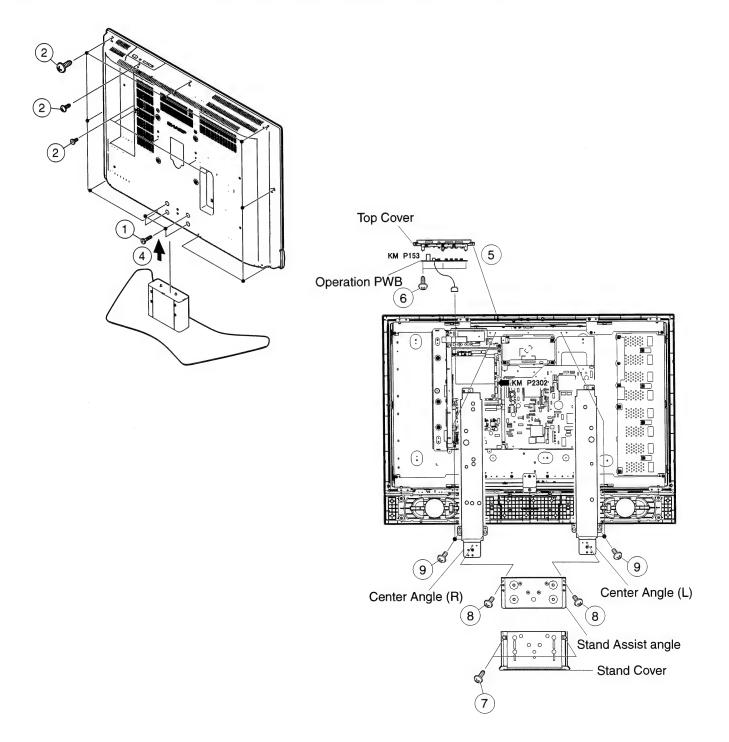
- If an underbar (_) appears in the parameter column, enter a
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

DIMENSIONS



REMOVING OF MAJOR PARTS

- 1. Remove the stand fixing screws (4 pcs.).
- 2. Remove the terminal screws (6 pcs.).
- 3. Remove the cabinet B fixing screws (9 pcs.).
- 4. Remove the cabinet B after opening from the direction of an arrow.
- 5. Remove the top cover ass'y.
- 6. Remove the operation PWB fixing screws (3 pcs.).
- 7. Remove the stand cover fixing screws (2 pcs.).
- 8. Remove the stand assist angle fixing screws (2 pcs.).
- 9. Remove the 6 lock screws from the right and left center angles and take out both center angles.

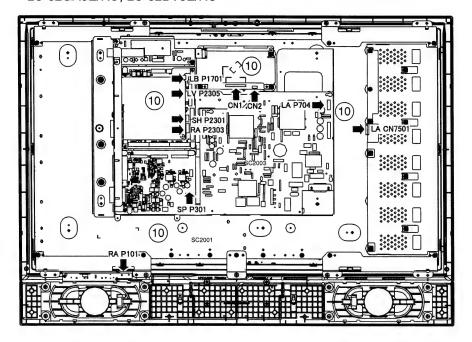




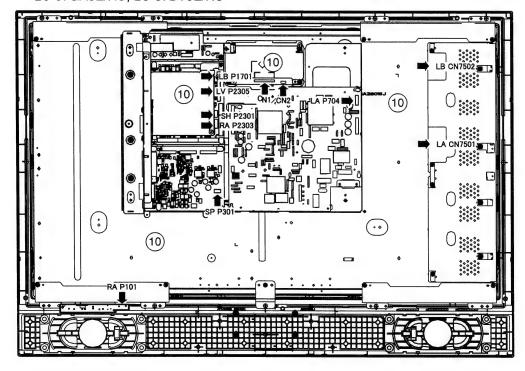
Removing of Major Parts (Continued)

10. Disconnect all the connectors from all the PWBs.

LC-32GA8E/RU, LC-32BV8E/RU

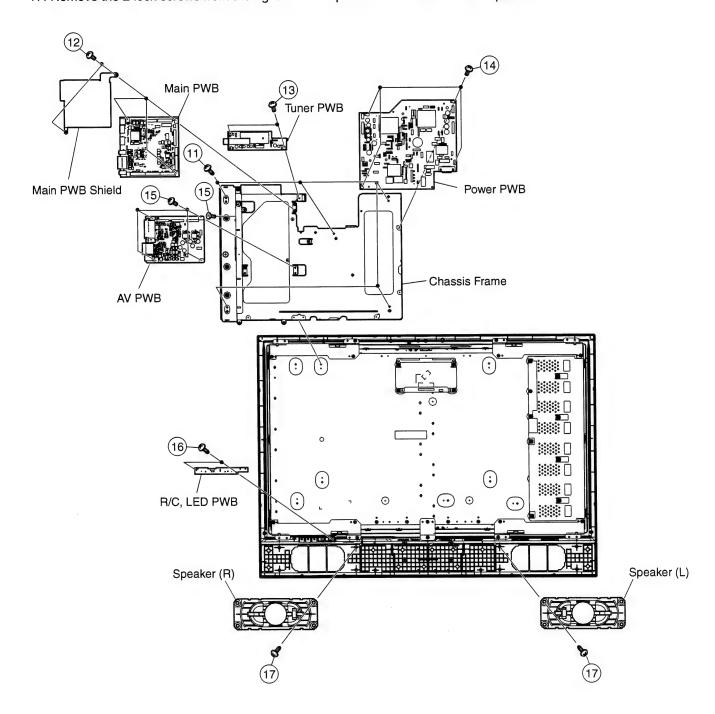


LC-37GA8E/RU, LC-37BV8E/RU



Removing of Major Parts (Continued)

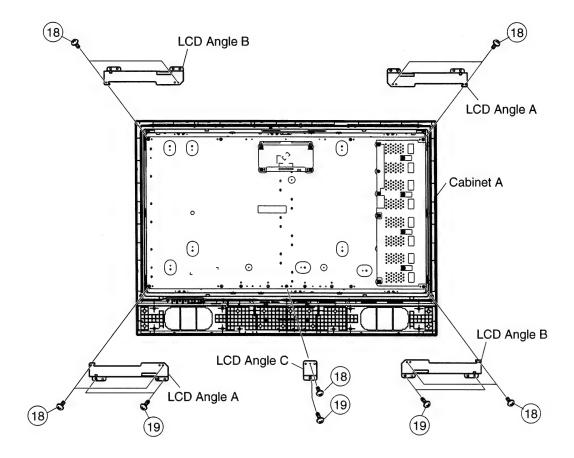
- 11. Remove the chassis frame fixing screws (5 pcs.).
- 12. Remove the main PWB fixing screws (4 pcs.).
- 13. Remove the tuner PWB fixing angle fixing screws (2 pcs.).
- 14. Remove the power PWB fixing screws (4 pcs.).
- 15. Remove the AV PWB fixing screws (5 pcs.).
- 16. Remove the R/C,LED PWB fixing screws (3 pcs.).
- 17. Remove the 2 lock screws from the right and left speakers and take out both speakers.





Removing of Major Parts (Continued)

- 18. Remove the LCD angle to LCD Panel fixing screws (9 pcs.).
- 19. Remove the LCD angle to Cabinet-A fixing screws (5 pcs.).



SERVICE ADJUSTMENTS

The adjustment values are set to their optimum at the factory before shipping. If by any chance a value should become improper or a readjustment is required due to part replacement, make an adjustment according to the following procedure.

1 Entering and exiting the adjustment process mode

- 1- Unplug the AC power cord of TV set to force power off.
- 2- While holding down the "VOL (–)" and "INPUT" keys on the set at once, plug in the AC power cord to turn on the set. The letter K appears on the screen.
- 3- Next, hold down the "VOL (—)" and "P (V)" keys on the set at once. Multiple lines of orange characters appearing on the screen indicate that the set is now in the adjustment process mode. If you fail to enter the adjustment process mode (the display is the same as normal start up), retry the procedure.
- 4- To exit the adjustment process mode after the adjustment is done, unplug the AC power cord to force off the power. (When the power is turned off with the remote controller, once unplug the AC power cord and plug it in again. In this case, wait 10 seconds plugging.)

Caution: Use due care in handling the information described here lest the users should know how to enter the adjustment process mode. If the settings tampered with in this mode, unrecoverable system damage may result.

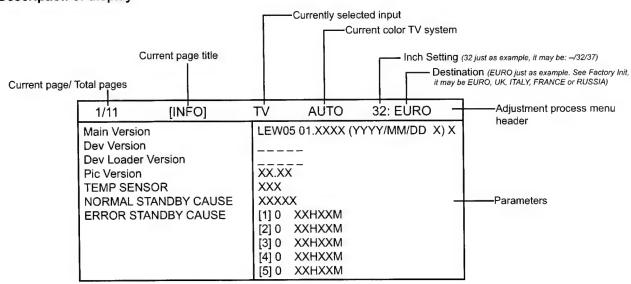
2 Remote Controller Key Operation and Description of Display in Adjustment Process Mode

2.1 Key operation

Remote controller key	Main unit key	Function
P (Λ / V)	P (/ / V)	Moving an item (line) by one (UP/DOWN)
VOL (+/-)	VOL (+/-)	Changing a selected item setting (+1/-1)
Cursor (UP / DOWN)		Turning a page (PREVIOUS / NEXT)
Cursor (LEFT / RIGHT)		Changing a selected line setting (+10/-10)
INPUT SOURCE on remote controller	INPUT button	Input source switching (toggle switching) (TV → EXT1 → EXT2 → EXT3 → EXT4 → EXT5) (Not Operative)
OK		Executing a function

Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal available.

2.2 Description of display



3. Adjustment process mode menu

The character string in brackets [] will appear as a page title in the adjustment process menu header.

Page	Line	Item	Description	Pomorka (Adjustment detail etc.)
1/11	rine	Item [INFO]	Description	Remarks (Adjustment detail, etc.)
1/ 1 1	1	Main Version	1.xxx (xx/xx/xxxx) x	Main microprocessor version (VCTD)
	2	Dev Version	1.333 (33/33/3333) 3	Main microprocessor version (VCTP) NOT USED
	3	Dev Version		NOT USED
	4	PIC Version	xx.xx	PIC version
	5	TEMP SENSOR		Temp inside cabinet (near panel)
	6	NORMAL STANDBY CAUSE	xxx [X]0	
	7	ERROR STANDBY CAUSE	xxHxxM (X5)	Last status which cause standby Error standby cause
	1'	ERROR STANDBT CAUSE	XXFIXXIVI (AD)	Total operating time before error
2/11		[INIT]		Total operating time before error
2/11	1	Factory Init	(/EURO/UK/ITALY/FRANCE/RUSSIA)ENTER	Initialisation to factory settings
	2	Inch Setting	(/26/32/37/45)	Initialisation to factory settings Initialisation data for different panel sizes
	3	PUBLIC MODE	OFF/ON	PUBLIC MODE flag setting
	4	Center Acutime	XxH xxM	Main operating hours (NOT OPERATIVE)
	5	RESET	OFF/ON	Main operating hours reset
	6	Backlight Acutime	XxH xxM	Backlight operating hours
	7	RESET	OFF/ON	Backlight operating hours reset
	8	Picture Read Pos X	0	x-axis setting of picture data
	9	Picture Read Pos Y	0	y-axis setting of picture data
	10	Picture Read	ON/OFF	Start/stop of picture data
3/11	1	[PAL. SECAM. N358]		1 totop of piotaro data
	1	RF-AGC ADJ	ENTER	RF AGC auto adjustment
	2	PAL+TUNER ADJ	ENTER	PALTUNER auto adjustment
	3	PAL ADJ	ENTER	PAL auto adjustment
	4	TUNER ADJ	ENTER	TUNER auto adjustment
	5	CONTRAST SD	32	SD contrast adjustment
	6	SECAM CB OFFSET	1	SECAM contrast adjustment
	7	SECAM CR OFFSET	l i	SECAM contrast adjustment
	8	TUNER A DAC	32	TUNER DAC adjustment
	9	RF AGC	20	RF AGC adjustment
4/11		[COMP 15K]		
	1	COMP 15K ADJ	ENTER	COMP 15K auto adjustment
	2	COMP 15K CONTRAST	32	Contrast adjustment
5/11		[HDTV]		
	1	HDTV CONTRAST	32	Contrast adjustment
6/11		[SMPTE]		
	1	RF-AGC ADJ	ENTER	RF AGC auto adjustment
	2	PAL+TUNER ADJ	ENTER	PALTUNER auto adjustment
	3	PAL ADJ	ENTER	PAL auto adjustment
	4	TUNER ADJ	ENTER	TUNER auto adjustment
	5	CONTRAST SD	32	SD contrast adjustment
	6	SECAM CB OFFSET	1	SECAM contrast adjustment
	7	SECAM CR OFFSET	1	SECAM contrast adjustment
	8	TUNER A DAC	32	TUNER DAC adjustment
	9	RF AGC	20	RF AGC adjustment
7/11		[M GAMMA INFO]		
	1	MGAMMA IN 1	160	W/B adjustment, gradation 1 input setting
	2	MGAMMA IN 2	320	W/B adjustment, gradation 2 input setting
	3	MGAMMA IN 3	480	W/B adjustment, gradation 3 input setting
	4	MGAMMA IN 4	640	W/B adjustment, gradation 4 input setting
	5	MGAMMA IN 5	800	W/B adjustment, gradation 5 input setting
	6	MGAMMA IN 6	960	W/B adjustment, gradation 6 input setting
	7	MGAMMA WRITE	OFF/ON	EEP writing of adjustment values
		LACALANA DECET		
0/4.4	8	MGAMMA RESET	OFF/ON	Initialisation of adjustment values
8/11		[M GAMMA 1-3]		
8/11	1	[M GAMMA 1-3] MGAMMA R 1	0	W/B adjustment, gradation 1R adjustment value
8/11	1 2	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1	0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value
8/11	1 2 3	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1	0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value
8/11	1 2 3 4	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2	0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value
8/11	1 2 3 4 5	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2	0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value
8/11	1 2 3 4 5 6	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA B 2	0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value
8/11	1 2 3 4 5 6 7	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3	0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value
8/11	1 2 3 4 5 6 7 8	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3 MGAMMA B 3	0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3G adjustment value
8/11	1 2 3 4 5 6 7 8	[M GAMMA 1-3] MGAMMA R 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3 MGAMMA B 3	0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3G adjustment value W/B adjustment, gradation 3B adjustment value
	1 2 3 4 5 6 7 8	[M GAMMA 1-3] MGAMMA R 1 MGAMMA B 1 MGAMMA B 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA WRITE	0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3G adjustment value
8/11	1 2 3 4 5 6 7 8 9	[M GAMMA 1-3] MGAMMA R 1 MGAMMA B 1 MGAMMA B 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA WRITE [M GAMMA 4-6]	0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3G adjustment value W/B adjustment, gradation 3B adjustment value EEP writing of adjustment values
	1 2 3 4 5 6 7 8 9 10	[M GAMMA 1-3] MGAMMA R 1 MGAMMA B 1 MGAMMA B 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 2 MGAMMA B 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3G adjustment value W/B adjustment, gradation 3B adjustment value EEP writing of adjustment values
	1 2 3 4 5 6 7 8 9 10	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA B 2 MGAMMA R 3 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA WRITE [M GAMMA R 4 MGAMMA G 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 3B adjustment value W/B adjustment, gradation 3G adjustment value W/B adjustment, gradation 3B adjustment value EEP writing of adjustment values W/B adjustment, gradation 4R adjustment value W/B adjustment, gradation 4R adjustment value W/B adjustment, gradation 4R adjustment value
	1 2 3 4 5 6 7 8 9 10	[M GAMMA 1-3] MGAMMA R 1 MGAMMA B 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA B 2 MGAMMA B 3 0 0 0 0 0 0 0 0 0 0 0 OFF/ON	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 2B adjustment value W/B adjustment, gradation 3R adjustment value W/B adjustment, gradation 3B adjustment value W/B adjustment, gradation 3B adjustment value EEP writing of adjustment values W/B adjustment, gradation 4R adjustment value W/B adjustment, gradation 4G adjustment value W/B adjustment, gradation 4B adjustment value	
	1 2 3 4 5 6 7 8 9 10	[M GAMMA 1-3] MGAMMA R 1 MGAMMA G 1 MGAMMA B 1 MGAMMA R 2 MGAMMA G 2 MGAMMA B 2 MGAMMA R 3 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA B 3 MGAMMA WRITE [M GAMMA R 4 MGAMMA G 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W/B adjustment, gradation 1R adjustment value W/B adjustment, gradation 1G adjustment value W/B adjustment, gradation 1B adjustment value W/B adjustment, gradation 2R adjustment value W/B adjustment, gradation 2G adjustment value W/B adjustment, gradation 3B adjustment value W/B adjustment, gradation 3G adjustment value W/B adjustment, gradation 3B adjustment value EEP writing of adjustment values W/B adjustment, gradation 4R adjustment value W/B adjustment, gradation 4R adjustment value W/B adjustment, gradation 4R adjustment value

Page	Line	Item	Description	Remarks (Adjustment detail, etc.)
9/11		[M GAMMA 4-6]		
(Continued)	6	MGAMMA B 5	0	W/B adjustment, gradation 5B adjustment value
	7	MGAMMA R 6	0	W/B adjustment, gradation 6R adjustment value
	8	MGAMMA G 6	0	W/B adjustment, gradation 6G adjustment value
	9	MGAMMA B 6	0	W/B adjustment, gradation 6B adjustment value
	10	MGAMMA WRITE	OFF/ON	EEP writing of adjustment values
10/11		[ETC]		
	1	EEP CLEAR	OFF/ON	Restore NVM data to default values
	2	EEP CLEAR B	OFF/ON	Restore NVM data to default values except
	1			adjustment data
	3	STAND BY CAUSE RESET	OFF/ON	Clearing of standby cause error list
	4	AUTO INSTALLATION SW	0/1	0: unfinished 1:finish (The setting takes effect
				the next time the power is turned on.)
	5	OPTION	0	
1	6	COUNTRY	(/EURO/UK/ITALY/FRANCE/RUSSIA)	Selected country.
	7	L ERR RESET	0	Lamp error counter
	8	L ERR STOP	0/1	Stops Lamp Error feature (Not operative)
	9	I2C-OFF	ENTER	BUS STOP
11/11	T .	LCD		
	1	OSC FREQ 50	144	
	2	OSC FREQ 60	144	
	3	PWM FREQ 50	11	
	4	PWM FREQ 60	1	
	5	PWM FREQ	424	
	6	PWM DUTY	227	
	7	PWM CTRL	0	

4 Special Features

- ERROR STAND-BY CAUSE (Page 1/11)

When the unit enters standby due to operational error, total time before the error and the cause of error is recorded on EEPROM, if possible. The values can be used to locate the fault for repair.

- EEP CLEAR (Page 10/11)

Restore NVM data to default values.

- EEP CLEAR B (Page 10/11)

Restore NVM data to default values except adjustment data.

5 Video Signal Adjustment Procedure

The adjustment process mode menu is listed in Section 3.

5.1. Signal check

Signal generator level adjustment check (Adjustment to the specified level).

- Composite signal PAL

: 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)

- 15K Component signal

: Y level

0.7Vp-p ± 0.02Vp-p (Pedestal to white level)

(50Hz) (576i/50Hz)

PB, PR level

 $0.7Vp-p \pm 0.02Vp-p$

5.2. Entering the adjustment process mode

Enter the adjustment process mode according to Section 1.

5.3. RF AGC Adjustment

	Adjustment Point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL	• Feed the PAL color bar signal (E-12ch) to TUNER. Signal level: 52 ±1dB μV (75Ω LOAD)
	Field Color Bar RF signal	[TUNER]	
		[Terminal] TUNER	1 100% white
2	Auto adjustment performance	Adjustment process page 3.	Bring the cursor on [•RF AGC ADJ] and press [OK]. [•RF AGC ADJ OK] appears when finished.

5.4. RF AGC Adjustment (SMPTE RF SIGNAL- Alternative Method)

	Adjustment Point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL SMPTE Field Color Bar RF signal [Terminal] TUNER	• Feed the PAL SMPTE color bar signal (E-12ch) to TUNER. Signal level: 52 ±1dB μV (75Ω LOAD) [TUNER] ↑ 100% white
2	Auto adjustment performance	Adjustment process page 6.	Bring the cursor on [•RF AGC ADJ] and press [OK]. [•RF AGC ADJ OK] appears when finished.

5.5. PAL Signal & Tuner Adjustment

	Adjustment Point	Adjustment conditions	Adjustmen	t procedure
1	Setting	[Signal] PAL FULL Field Color Bar Composite or RF signal [Terminal] EXT3 VIDEO IN TUNER	Peed the PAL full field color bar siext3 VIDEO IN. Peed the RF signal PAL color bar at Make sure the PAL color bar patte with the picture level. [EXT 3]	(E-12) to TUNER.
2	Auto adjustment performance	Adjustment process page 3.	Bring the cursor on [•PAL +TUNER [•PAL+ TUNER ADJ OK] appears to	

5.6. PAL Signal & Tuner Adjustment (SMPTE RF SIGNAL-Alternative Method)

	Adjustment Point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL FULL Field Color Bar Composite or RF SMPTE signal [Terminal] EXT3 VIDEO IN TUNER	Feed the PAL full field color bar signal (75% color saturation) to EXT3 VIDEO IN. Feed the RF signal SMPTE color bar (E-12) to TUNER. Make sure the PAL color bar pattern (E-12) has the sync level of 7:3 with the picture level. [EXT 3] [TUNER] † 100% white
2	Auto adjustment performance	Adjustment process page 6.	Bring the cursor on [•PAL +TUNER ADJ] and press [OK]. [•PAL+ TUNER ADJ OK] appears when finished.

5.7. ADC Adjustment (Component 15K)

	Adjustment Point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] (576i/50) COMP 15K, 50Hz 100% Full Field Color Bar [Terminal] EXT4 [COMPONENT]	• Feed the COMPONENT 15K 100% full field color bar signal (100% color saturation) to EXT4 COMPONENT IN. [EXT 4] ← Black ↑ 100% white
2	Auto adjustment performance	Adjustment process page 4.	Bring the cursor on [•COMP15K ADJ] and press [OK]. [•COMP15 ADJ OK] appears when finished.

6 White Balance Adjustment

Adjustment procedure Page 7/11 shows the value of adjustment gradation (IN value) and Adjustment procedure Page 8/11 & 9/11 show adj. offset value (initial value: 0). White balance adjustment is executed adjusting the adj. offset value, indicated on Page 8/11 & 9/11.

Condition of the inspection: • Backlight: MAX (+8) [DYNAMIC]

· Colorimeter at screen centre

Adjustment reference device: Minolta CA-210

Tolerance adjustment spec. ±0.004, Inspection spec. : ±0.006 (GAMMA 1)
Tolerance adjustment spec. ±0.002, Inspection spec. : ±0.004 (GAMMA 2...6)

Adjustment: Check that the values on page 7/11 of process adjustment are set as below. If not, change them accordingly.

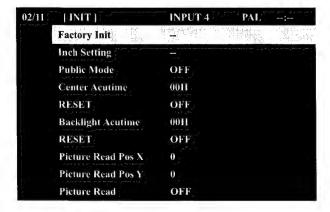
M GAMMA IN 1	160	M GAMMA IN 2	320
M GAMMA IN 3	480	M GAMMA IN 4	640
M GAMMA IN 5	800	M GAMMA IN 6	960

- 1- Display the current adjustment status at point 6. (Page 9/11 of process adjustment)
 The pattern for checking the adjustment status is toggled by pressing the "6" button on the remote control. (Normal OSD display -> "6" -> pattern for check (OSD disappears) -> "6" -> normal OSD display -> ...)
- 2- Read the value of the luminance meter.
- 3- Change M GAMMA R6/M GAMMA B6 (adjustment offset value) on page 9/11 of process adjustment so that the values of the luminance meter approach $\mathbf{x} = \mathbf{0.272}$ and $\mathbf{y} = \mathbf{0.277}$. (Basically, G is not changed. If adjustment fails only with R and B, then G should be reduced. In this case, the weaker of R and B must be fixed.)
- 4- If G is changed in step "3", change the values of M GAMMA G1 M GAMMA G5 on pages 8/11 and 9/11 of process adjustment as follows. When not changed, go to step "5".

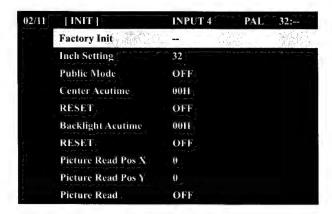
Offset value of M GAMMA G1 = (Offset value of M GAMMA G6)*(160/960)
Offset value of M GAMMA G2 = (Offset value of M GAMMA G6)*(320/960)
Offset value of M GAMMA G3 = (Offset value of M GAMMA G6)*(480/960)

7. QS Temperature NVM Data Confirmation

During servicing of the LCD TV set, by software upgrading or by any cleaning NVM, it's mandatory select the "Inch Setting" in Service Mode, Page 2, according to the size of the TV set.







Picture with [Inch Setting] to 32.

8. Initialization to factory settings

Caution: When the factory settings have been made, all user setting data, including the channel settings, are initialized. (The adjustments done in the adjustment process mode are not initialized.) Keep this in mind when initializing these settings.

Adjustment item	Adjustment conditions	Adjustment procedure
1 Factory settings	See to below caution	 Enter the adjustment process mode. Bring the cursor on to [FACTORY INIT] on page 2/11. Use the [Volume +-] key to select a region from [EURO/UK/ITALY/FRANCE/RUSSIA] and press [ENTER]. "EXECUTING" appears and initialization starts. After a while, "***OK***" appears and the setting is complete. Note: Never turn the power off during initialization.
		The following settings will be back to their factory ones. 1. User settings 2. Channel data (e.g. broadcast frequencies) 3. Password data

After adjustments, exit the adjustment process mode.

To exit the adjustment process mode, unplug the AC power cord from the outlet to forcibly turn off the power. When the power is turned off with the remote control, unplug the AC power cord and plug it back in (wait approximately 10 seconds before plugging in the AC power cord).

9. Lamp error detection

9.1. For 37" LCD TV

9.1.1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the following occur.

1- The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV

turns from green to red.)

2 - If the situation "1" happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

9.1.2. Countermeasures

When television is turned OFF by the lamp error detection mentioned above, it enters the adjustment process with the power LED red. Entering the adjustment process turns OFF the error detection and turns ON TV. This enables the operation check to detect errors in the lamp or lamp circuit.

Check whether "L ERROR RESET" on point 7, page 10/11 of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed. After confirming that the lamp or lamp circuit is normal, reset the lamp error counter pushing "OK" in the R/C. After resetting counter the label "***OK***" appears on Screen.

9.1.3. Reset standby cause error list

After confirming that the lamp error counter has been erased, select "STAND BY CAUSE RESET" on point 3, page 10/11 of the adjustment process and select ON using the right cursor. For execute press "OK" in the R/C and the label "***OK***" appears on Screen.

9.2 For 32" LCD TV

9.2.1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically (Inverter unit) for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the following occur. The Inverter circuit stops but the rest of TV continues working. The power led is green.

9.2.2 Countermeasures

Proceed to repair the inverter unit to solve the problem that produces the lamp error.

9.2.3. Reset standby cause error list

For 32" this is not necessary because the lamp error detection is not operative by software.

10. Public Mode (Hotel Mode)

10.1 How to Enter in the Public Mode (Hotel Mode).

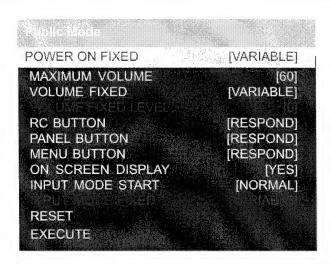
Turn on the power and enter in the Adjustment Process mode (ADJ1 or Service Mode) as usual.

In the [INIT], Page 2/11 of Service, turns ON the Public Mode option.

Turn off TV by pressing Main Power switch.

While pressing "VOL+" and "P^" keys at the same time, press Main Power switch for more than 2 seconds.

After this sequence the TV will turn on showing the Public Mode setting screen as follows:



Is possible to select each item of function by pressing cursor UP/DOWN keys on the remote control or $CH(\land)(\lor)$ keys on the LCD TV.

The setting position of each item of functions is made by pressing cursor RIGHT/LEFT keys on the remote control or VOL(+)(-) keys on the LCD TV.

Select EXECUTE position after you set all function, and press cursor RIGHT/LEFT keys on the remote control or VOL(+)/(-) keys on the LCD TV for confirmation.

10.2. Public Mode Settings.

1. POWER ON FIXED [VARIABLE ⇔FIXED]

When it is set to "FIXED" the TV is impossible to be switch off by Main Switch or Remote Control.

2. MAXIMUM VOLUME [0 ⇔ 60]

Is possible to set the maximum volume at limited level.

3. VOLUME FIXED [VARIABLE ⇔ FIXED]

Is possible to fix the sound volume at limited level.

When "FIXED" is selected the sound volume before limited is fixed.

4. VOLUME FIXED LEVEL [0 ⇔ 60]

If "FIXED" has been selected, is possible to set a fixed volume at the level that is chosen.

5. RC BUTTON [RESPOND ⇔ NO RESPOND]

If "NO RESPOND" is selected, the remote control keys are inoperative.

6. PANEL BUTTON [RESPOND ⇔ NO RESPOND]

If "NO RESPOND" has been selected, the set's keys remain deactivated (Except POWER key).

7. MENU BUTTON [RESPOND ⇔ NO RESPOND]

If "NO RESPOND" has been selected, "MENU" key, of remote control, is inoperative.

8. ON SCREEN DISPLAY [YES ⇔ NO]

If "NO" has been selected, the On Screen Display does not appear.

9. INPUT MODE START [NORMAL⇔TV (X)⇔INPUT1 ⇒INPUT2⇔INPUT3 ⇒ INPUT4 ⇔ INPUT5⊅]

When any other item than "NORMAL" has been selected, the sets will start in a selected input mode at the next power-on.

10. INPUT MODE FIXED [VARIABLE ⇔FIXED]

If "FIXED" has been selected, any channels and input modes other than those selected at the start mode cannot be picked up.

11. RESET

Cancel all Public Mode settings. (It returns to the factory settings)

12. EXECUTE

Select this item, and press cursor RIGHT/LEFT keys on the remote control or VOL(+)/(-) keys on the LCD TV for confirmation the functions settings.

SOFTWARE UPDATING

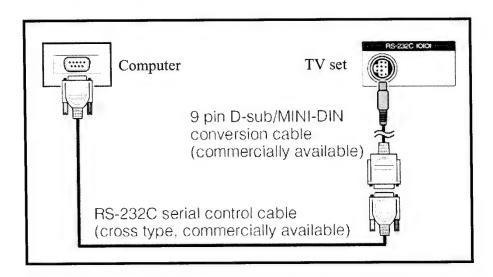
There are 3 methods to update software in the VCTp: I2C method, RS-232C HyperTerminal and RS-232C Tera Term method.

- RS-232C method is allowed when the TV is working properly and the action should be only software upgrade.
- 12C method is required when the VCTp flash is empty or corrupted (it means, any software inside IC running).

1. RS-232C Method Description (HyperTerminal).

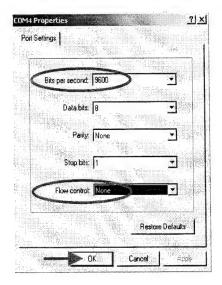
The hardware tools requirement are:

- 1. A Modem-null (Cross type) DB9 female to DB9 female cable.
- 2. An adaptor DB9 male to mini-Din 9 pin male cable (Sharp Code: QCNWGA015WJPZ)
- 3. Make the connections as indicated in the figure:



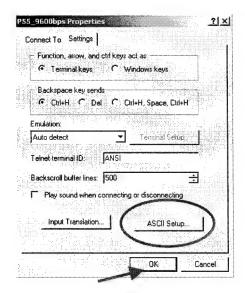
Before using RS-232C updating method is necessary to configure a Terminal PC software. HyperTerminal has been selected as a Terminal software because it's include in all Windows versions as an accessory, and you can find it inside "Accessories\Communications" folder. For this reason, please follow carefully the next steps:

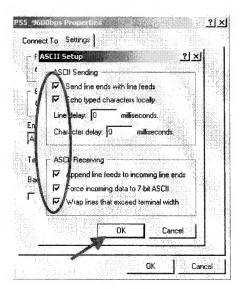
- 1. First time HyperTerminal is used, it's necessary to configure some settings. Follows next action to configure two connection: low speed (9600bps) and high speed (115200bps).
- 2. Create a New Connection file with name "P55_9600bps".
- 3. Select a free COM port and select the Port Settings properties as follows:



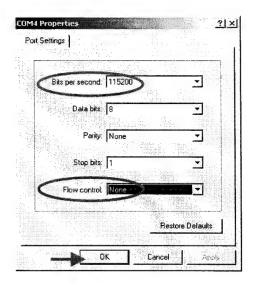


4. Click on "File\Properties" menu for selecting the General and ASCII properties as follows:





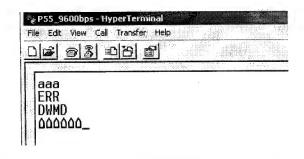
- 5. Select "New Connection" in the File Menu.
- 6. Answer "Yes" to close current connection and "Yes" to save session "P55_9600bps".
- 7. Create a new connection with the name "P55 115200bps".
- 8. Select a the same COM port used in item 2 and select the Port Settings properties as follows:



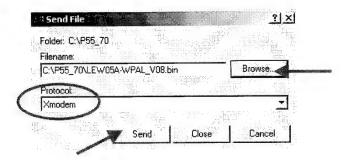
- 9. Select the same General and ASCII properties as item 3.
- 10. Close HyperTerminal session, answering "Yes" to close current connection and "Yes" to save session "P55_115200bps".

To start updating session, click over "P55_9600bps" icon that you can find in the "START\All programs\Accessories\ Communications\HyperTerminal\HyperTerminal\ folder and follow next procedure:

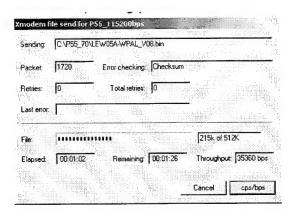
1. Check the connection between TV set and PC, sending a wrong command, as for example: "aaa". TV set returns an "ERR" label as an syntaxis ERROR (Not correct order or sequence).



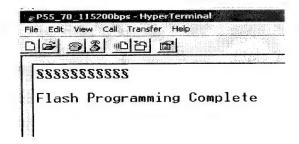
- 2. Send the command "DWMD" to enter TV set in Download Mode. The TV set answer sending same symbol continuosly. If this symbol character doesn't appear, please don't worry and pass to next step.
- 3. Close this connection and open "P55_115200bps" connection clicking over the "P55_115200bps" that you can find in "START\All programs\Accessories\ Communications\HyperTerminal\HyperTerminal" folder.
- 4. Using "Transfer\Send file..." menu, select desired file (.bin format) and the transmission protocol (Xmodem) as show below.



5. After press "Send" button the updating process starts as follows:



6. When flash update process finishes, the "Flash Programming Complete" label appears in the screen.



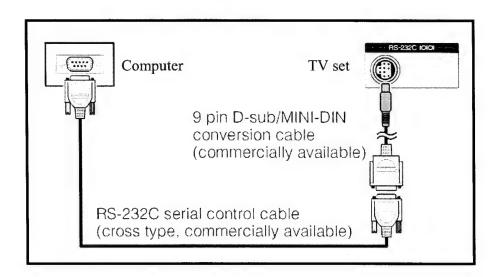
VERY IMPORTANT NOTE:

During the updating time, please don't use the PC for other purpouses, in order to abolish communication problems between TV set and PC. If TV set was not updated properly, the TV won't have the software to startup again, and you must follow the "I2C method" to update another time the TV set.

2. RS-232C Method Description (Tera Term)

The hardware tools requirement are:

- 1. A Modem-null (Cross type) DB9 female to DB9 female cable.
- 2. An adaptor DB9 male to mini-Din 9 pin male cable (Sharp Code: QCNWGA015WJPZ)
- 3. Make the connections as indicated in the figure:



Software requirements:

To upgrade VCTp software from RS-232C external connector is necessary to use a Tera Term (Pro) free software.

The URL of Tera Term home page is:

http://hp.vector.co.jp/authors/VA002416/teraterm.html

(The address may be changed in future)

Tera Term (Pro) supported operating systems:

MS-Windows 95 or upper

MS-Windows NT 3.5 and 4.0 or upper

Note.- For Windows 3.1 use Tera Term version 1.X.

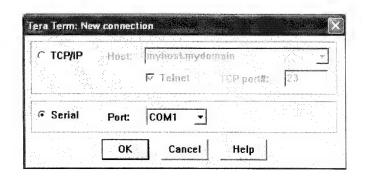
Copy all the distribution files to an empty floppy disk or temporary directory (for example C:\ TEMP).

Run SETUP.EXE and follow the instruction given by it.

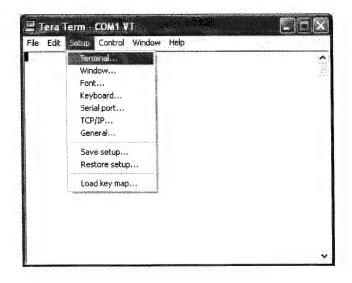
After the installation, the distribution files are no longer needed, you can delete them or may keep them in the floppy disk.

How to use Tera Term Pro:

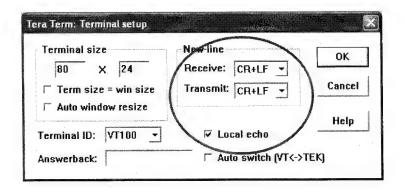
When the Tera Term (Pro) program is used, it's necessary to shape some settings. Follows next action to configure the connection:



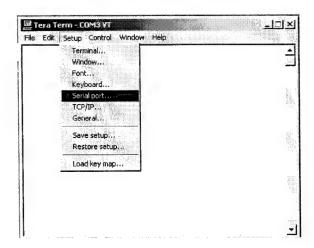
1. Select: Serial \Rightarrow COM X \Rightarrow O.K.



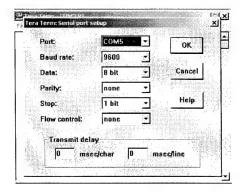
2. Select: Terminal



3. Choose the same options as the above picture.



4. Select Setup ⇒ Serial port ⇒ O.K. Appear the follow screen:



5. Select follows settings:

Serial port to use: COM x

Baud rate:

9600

Data:

8 bits

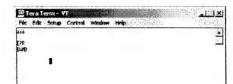
Parity:

none 1 bit

Stop: Flow control:

none

Enter O.K.

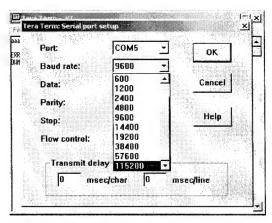


6. Check the connection between TV set and PC, sending a wrong command, as for example: "aaa". TV set returns an "err" label as an syntaxes ERROR (Not correct order or sequence).

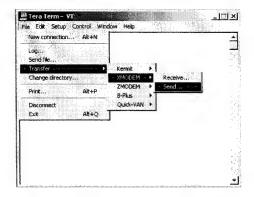
Send a "DWMD" (capital letters) command to enter TV set in Download Mode.

Change a baud rate to 115200.

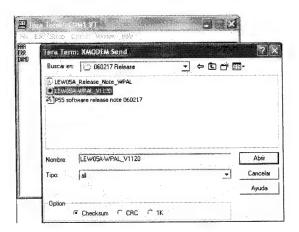
Select: Setup \Rightarrow Baud rate \Rightarrow 115200 \Rightarrow O.K.



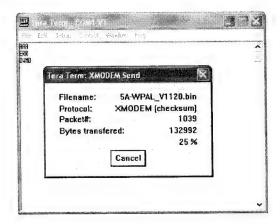
7. Select: File ⇒ Transfer ⇒ XMODEM ⇒ Sent



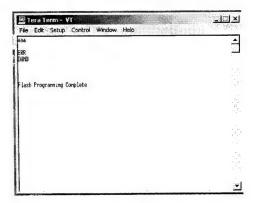
8. Choose the file for upgrade and click "Open".



9. After select "Open" the upgrade process starts as follows:



10. When flash update process finishes, the "Flash programming complete "label appear in the screen, the device automatically go to switch off, and in a few seconds go to switch on again.



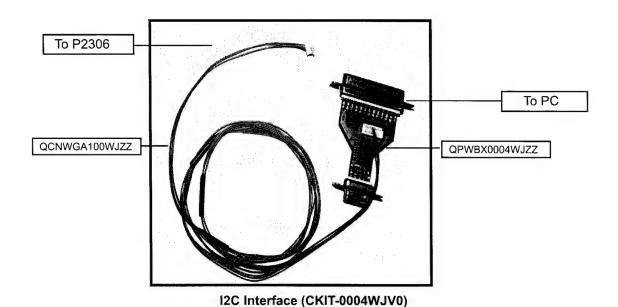
VERY IMPORTANT NOTE:

During the updating time, please <u>don't use</u> the PC for other purposes, in order to abolish communication problems between TV set and PC. If TV set was not updated properly, the TV won't have the software to startup again, and you must follow the <u>"I2C method"</u> to update another time the TV set.

3. I2C Method Description

The hardware tools requirement are:

- 1. A Parallel port I2C interface with 20 pin to 3 pin cable (Sharp Code: CKIT-0004WJV0).
- 2. Make the connections as indicated below:
 - a. Connect Parallel port I2C interface to LPT port of the computer.
 - b. Connect the 20 to 3 pin cable from the I2C interface to the P2306 socket in the main board (XD603).



Before using I2C method is necessary to install Visual I2C software following next procedure.

- 1. Install Visual I2C release V3.2.3b from file ("Setup_Visual_I2C_v3-2-3b8h.exe").
- •It's strongly recommended to accept the suggested default folder ("C:\Program Files\Micronas\Visual I2C").
- 2. Install Visual I2C VCTp extension from file ("Setup_VI2C_for_VCT6wxyP_v0111.exe").
- •It's interesting to change default folder to same as Visual I2C ("C:\Program Files\Micronas\Visual I2C").
- •During this installation process is possible to install also a complementary software to manage NVM memories. This installation is not needed, for this reason uncheck the option when the setup program ask to you. In case of installation it's interesting to change default folder to same as Visual I2C ("C:\Program Files\Micronas\Visual I2C").
- 3. Install Parallel driver depending of your Windows version from existing files inside the Visual I2C installation folder "C:\Program Files\Micronas\Visual I2C\Port Driver", following next criteria:.
 - a. Windows 98/Me ("Setup_LptDrv_v0104_9x.exe").
 - b. Windows NT ("Setup_LptDrv_v0104_NT_2000.exe").
 - c. Windows Xp/2000 ("Setup_LptDrv_v020201_XP_2000.exe").

After installing Visual I2C, the new generated file structure should look like this:

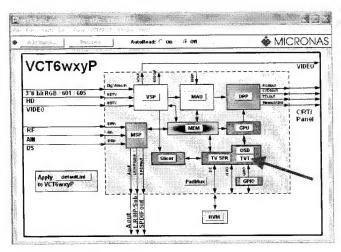


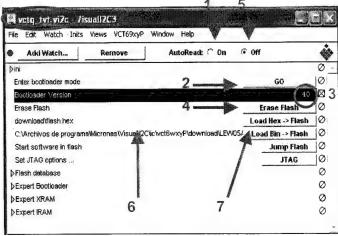
4. Check installation LPT driver using "C:\Program Files\Micronas\LptDrv\LptDrvTest.exe". After run this software, if LPT driver is installed properly must appear this screen:



•If the result is not OK, check inside PC bios: Parallel Port Mode=EPP

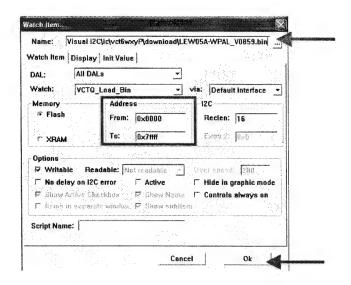
To run VCTp software update program, please click over "VCTP" icon from "START\All programs\Micronas\Visual I2C\IC\VCTP" and after Visual I2C finish their starting process click on "TVT" module. As additional method, it's possible to create a direct access to "C:\Program Files\Micronas\Visual I2C\ic\vct6wxyP\vctq_tvt.vi2c" and launch it from Windows Desktop.





To start updating process follow next instructions:

- 1. Set Autoread in ON option.
- 2. Click on "GO" button.
- 3. Wait until "40" appears in Bootloader Version field.
- 4. Close DOS pop up windows pressing any key ("Press any key to continue...".).
- 5. Click on the "Erase flash" button and wait for a seconds and set the AutoRead to OFF.
- 6. Check in the desired software version is selected in the "Load BinàFlash" option. If it's not the correct one, please double click on the file name and select it. The first time this software is use it's necessary to confirm write Addressing margin as from 0x0 to 0x7ffff.



7. Click on the "Load Bin → Flash" to start updating process.

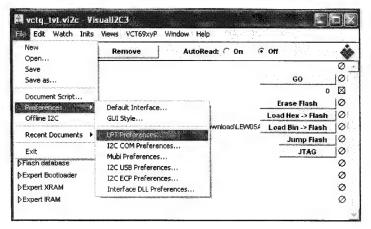


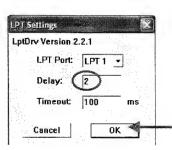
8. When the updating process finishes, the "Progress" pop up window automatically closes. If appears some problem during the updating process a error label appears in the filename information line.

If the TV has problem to enters in the "Bootloader mode", it's possible to force it by hardware method. This alternative method is described below:

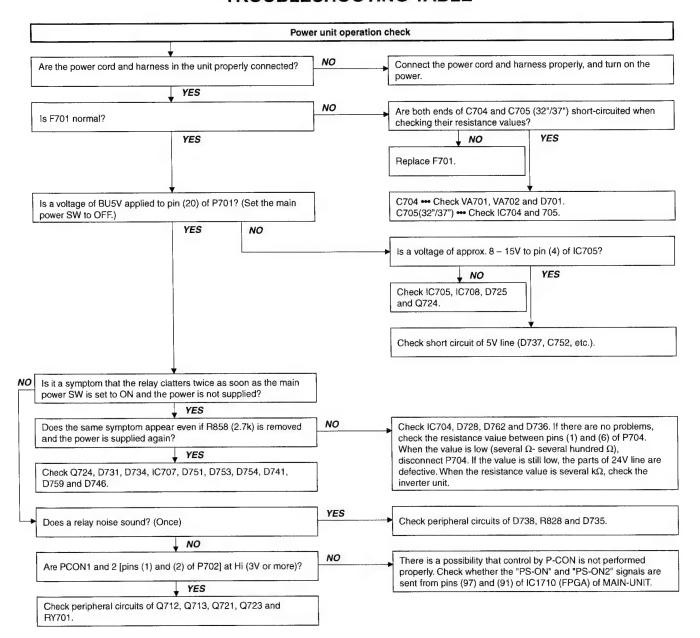
- 1.Switch off TV set or hold VCTp RESET line to GND.
- 2.Pull down SCL line (pin 1) to GND (pin 3) in P2306 connector.
- 3. Switch on TV set or release VCTp RESET line.
- 4. Release SCL pull down after minimum of 2 seconds.
- 5. Check if VCTp is in bootloader mode with Autoread setting in ON.
- 6. Wait until "40" appears in Bootloader Version field.
- 7. Follow instruction from item 5 on software method.

Sometimes, depending on the PC hardware, the progress bar runs very fast (Normal time: 1 minute) or some error message appears in the filename information line. This means it's necessary to modify some parameter of LPT port, for this reason select "LPT Preferences" on the "File\Preferences..." menu and increase Delay from "0" to "1" or "2" (normally, these values are the best choice).

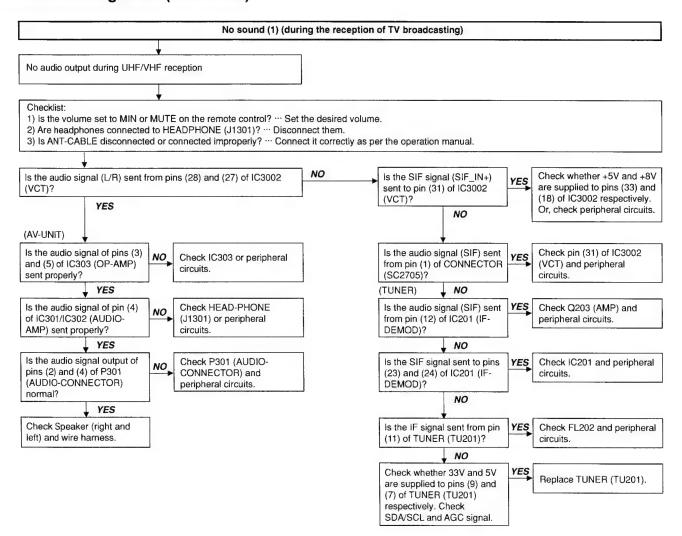




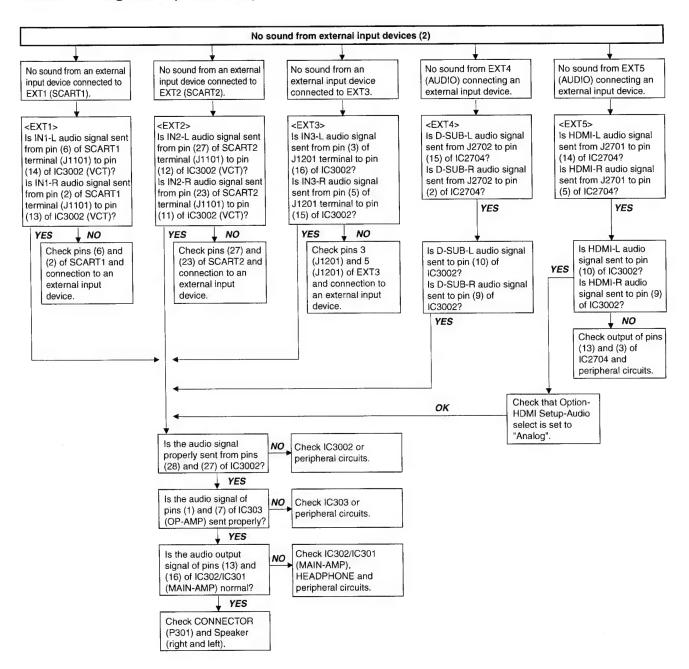
TROUBLESHOOTING TABLE



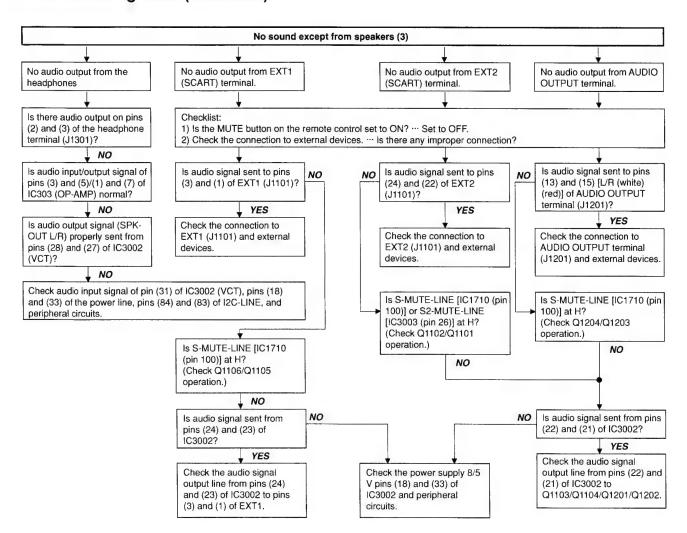
Troubleshooting Table (continued)

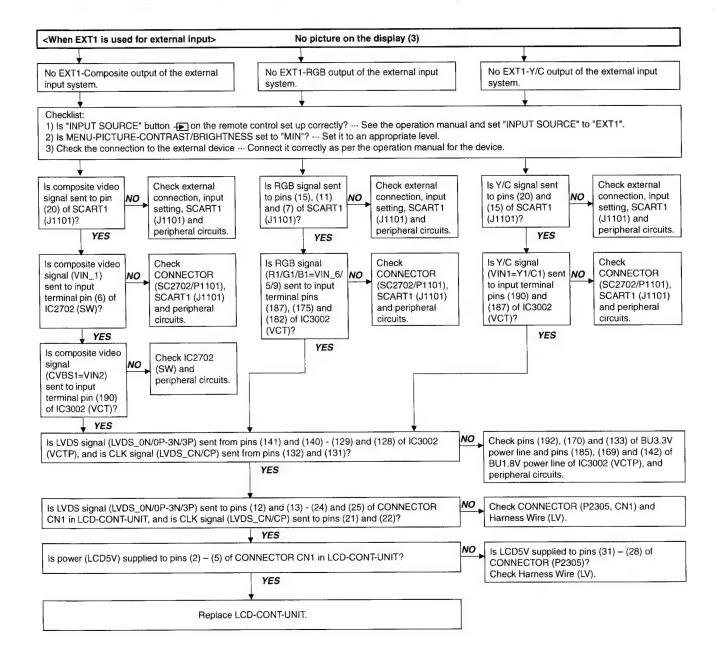


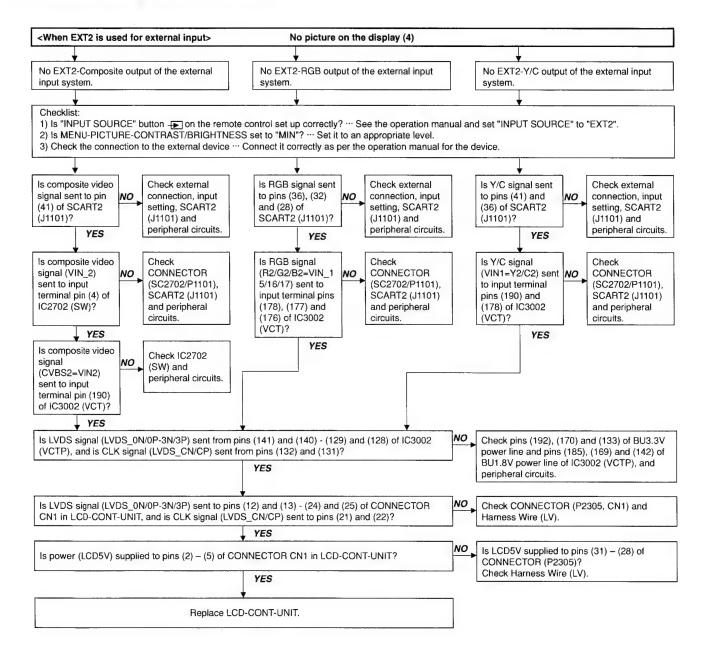
Troubleshooting Table (continued)

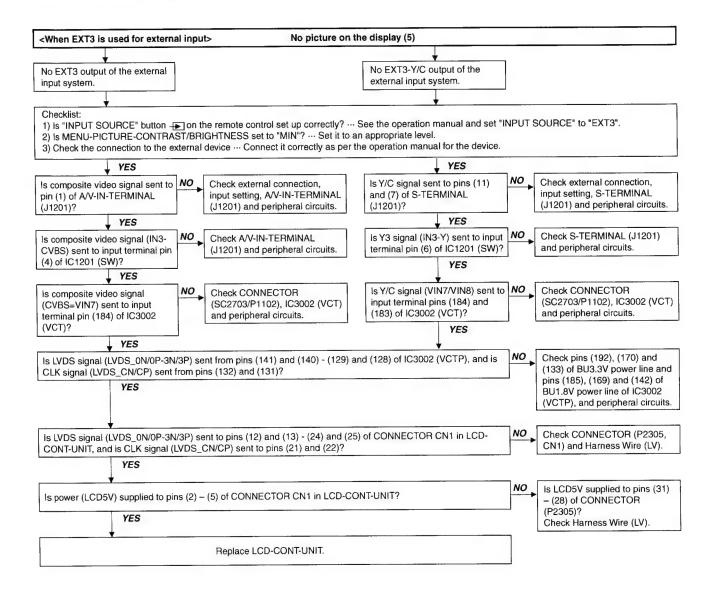


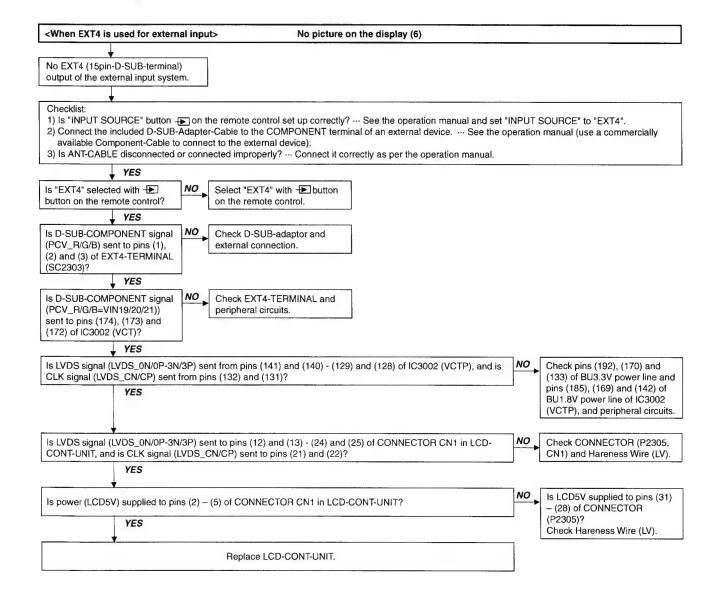
Troubleshooting Table (continued)

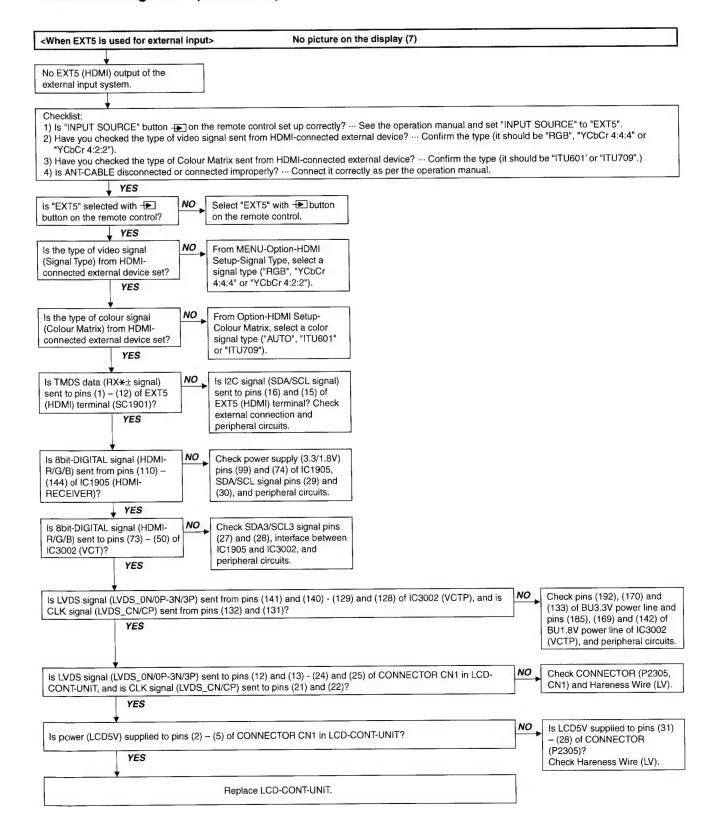


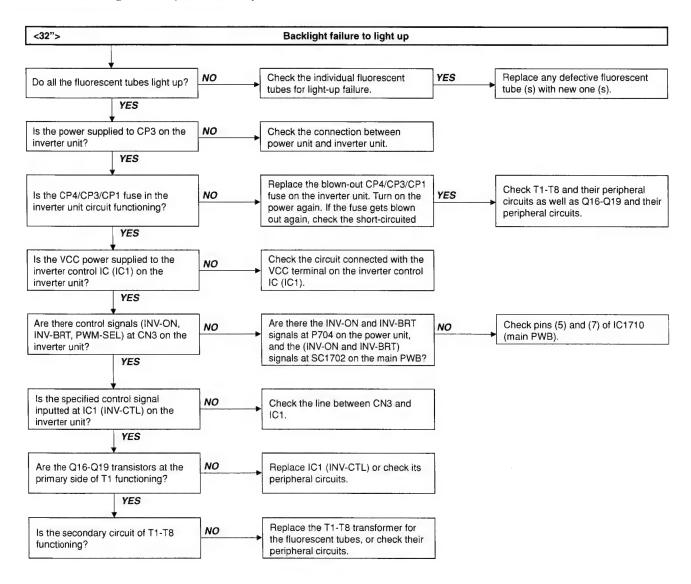


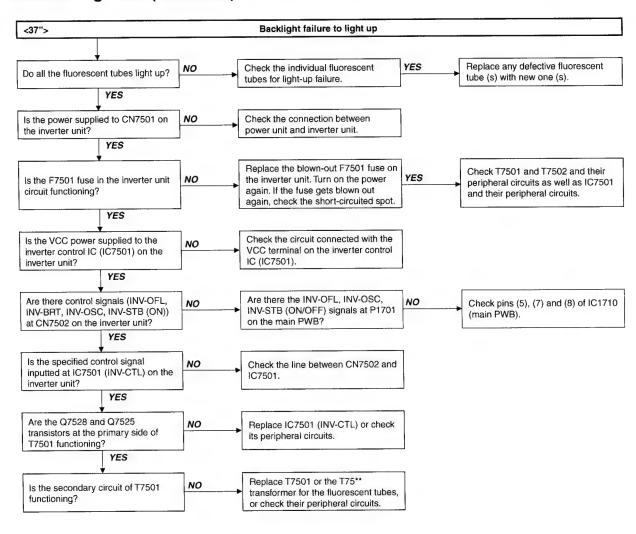


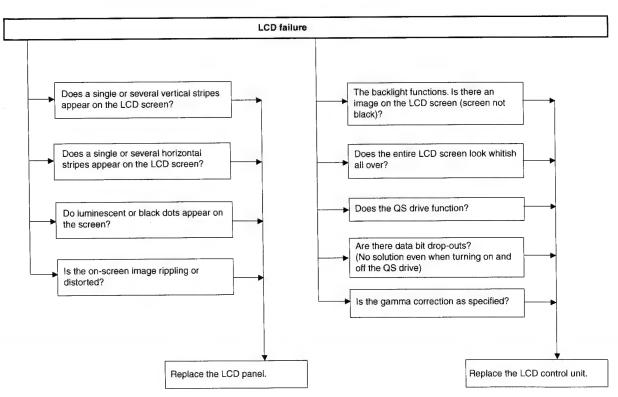














MAJOR ICS INFORMATION

1. General ICs Information

XD890WJ (MAIN UNIT):

· IC1905 : HDMI RECEIVER Part number: Sii9021

Sharp code: VHISII9021+-1Q

The Sii9021 is a second generation panel link cinema receiver that is compatible with the HDMI 1.1 (High Definition Multimedia Interface) specification. The Sii9021 is capable of receiving and outputting two channel digital audio signals at up to 192 kHz—an excellent solution for digital TVs.

This IC features the following.

1) Digital video interface supports video processors.

- 2) Analog RGB and YPbPr output: 10-bit DAC.
- 3) Digital audio interface supports high-end audio systems.

• IC1901: NVM OF HDMI (E-EDID)
Part number: 24LC2BIN
Sharp code: VHI24LC2BIN-1Y

This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. This EEPROM chip stores the data structure used to carry configuration information for optimal use of a display (EDID data).

• IC2701 : SYNC SELECT Part number: TVHC153T

Sharp code: VHITVHC153T-1Y

This VHC153 is a high-speed Dual 4-input multiplexer with common select inputs and individual enable inputs for each section.

IC2704: HDMI & RGB SOUND MULTIPLEXER

Part number: CD4052BP Sharp code: VHICD4052BP-1Y

The TC74HC4052A is a high-speed CMOS analog multiplexer/demultiplexer backed by silicon gate CMOS technology. The multiplexer function includes the selection and mixing of analog and digital signals. The chip consists of 4 channels (x 2). A digital signal through the control terminal turns on the switch of a corresponding channel.

· IC3002: VIDEO PROCESSOR

Part number: VCTP

Sharp code: RH-IXB624WJN1Q

The VCT 6wxyP family is dedicated to high-quality FPD and double-scan TV sets. The memory and program ROM are integrated in the IC. Modular design and deep submicron technology allow the integration of audio, video, teletext, OSD, and controller-related functionalities. They cover the whole range of flat-panel display TVs. The IC is based on proven functional blocks of existing products like VCT 49xxl, VSP 94x5B, and DPS 94xxB.

Each member of the IC family contains the entire audio, video, upconversion processing for 4:3 and 16:9 50/60 Hz progressive or 100/120 Hz interlaced stereo TV sets plus the control/data interface for flat-panel displays. The integrated microcontroller is supported by a powerful OSD and graphics generator with integrated teletext acquisition.

The VCT 6wxyP family provides a front-end video processing unit with 4 CVBS-Y/C or component inputs for HDTV, EDTV, and SDTV. A VBI slicer, support of 1000 pages of teletext, and a 3-D comb filter for PAL and NTSC (in certain versions) are also available. The front-end unit further allows to process an SD and an HD source in parallel, thus enabling PiP and PaP functionality. Motion-adaptive de-interlacing, temporal noise reduction, and film mode detection are based on a unified memory technology.

Post-scaling in the display processing block ensures the desired output format. Display processing is supported by an 8-bit 8051-compatible controller. By means of powerful alpha-blending, the graphics mixer composes the output image from following image layers: the video layer, the OSD layer and the pixel graphics layer.

The audio part consists of a multistandard sound IF demodulator and a baseband processor supporting all desired sound features in this range.

A connection for additional features, such as advanced motion compensation via -Micronas' FRC 94xyA, is also provided.

- IC3001: NVM 64Kb-E2PROM

Part number:

BR24L64F

Sharp code:

VHIBR24L64F-1Y

The BR24L64F is a 2-wire (I2C bus type) serial EEPROM that is electrically programmable. This IC stores the control data of system contents (last memory, for example) for the main microprocessor's AV PWB and main PWB. The data is given out by commands from the main microprocessor.

· IC3003: PIC MICROCONTROLLER

Part number:

PIC16F913

Sharp code:

RH-IXB664WJZZY

28 Pin Flash-Based, 8 bit CMOS Microcontrollers with LCD Driver and nanoWatt Technology.

This IC is controlled via I2C and works how expander of ports. This IC has led control and include A/D converter.

· IC2301: RS-232 TRANSMITTERS/RECEIVERS

Part number:

ISL83220

Sharp code:

VHIISL83220-1Y

The ISL83220E is a 3.0V to 5.5V powered RS-232 transmitter/receiver,+/-15kV ESD protected, minimum data rate 250 kpbs.

· IC2303: NVM OF PC MODE (EDID)

Part number:

BR24C21F

Sharp code:

VHIBR24C21F-1Y

This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. This EEPROM chip stores the data structure used to carry configuration information for optimal use of a display (EDID data).

· IC1701: POWER RESET OF +BU1.8V

Part number:

BU4239G

Sharp code:

VHIBU4239G+-1Y

Low voltage detector IC with adjustable output delay. Standard Detection Voltage = 3.9V

IC1702: BU+3.3V (VOLTAGE INPUT: BU+5V)

Part number:

PQ20WZ11

Sharp code:

VHIPQ20WZ11-1Y

Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions, ASO protection circuit.

· IC1703: S+8V (VOLTAGE INPUT: POW+12V)

Part number:

PQ20WZ11

Sharp code:

VHIPQ20WZ11-1Y

Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions, ASO protection circuit.

- IC1707: +3.3V (VOLTAGE INPUT: POW+5V)

Part number:

PQ20WZ11

Sharp code:

VHIPQ20WZ11-1Y

Low power-loss voltage regulators. Variable Output. Output current 1A. Built-in overcurrent, overheat protection functions. ASO protection circuit.

• IC1708: +1.8V (VOLTAGE INPUT: POW+5V)

Part number:

MP1410

Sharp code:

VHIMP1410ES-1Y

DC to DC Converter. 2A Step down switch mode regulator with a built in internal Power Mosfet. Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.

• IC1706: BU+1.8V (VOLTAGE INPUT: BU+5V)

Part number:

MP1410

Sharp code:

VHIMP1410ES-1Y

DC to DC Converter. 2A Step down switch mode regulator with a built in internal Power Mosfet. Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown.



· IC1710: CPLD

Part number:

EPM240T

Sharp code:

RH-IXB823WJZZQ

This IC is a CPLD of Altera and use CMOS EEPROM cells to implement logic functions with 64 Macrocells. This device controls ON/OFF power supply and signals for inverter unit.

FD604WJ (AV UNIT):

· IC301 & IC302: AUDIO AMPLIFIER

Part number:

TDA8931T

Sharp code:

VHITDA893T-1Y

The TDA8931 is a switching power stage for high efficiency class-D audio power amplifier systems. The IC has a high efficiency so that a heat sink is not required up to 20W (RMS).

· IC303: HEADPHONE AMPLIFIER

Part number:

NJM4558M

Sharp code:

VHINJM4558M-1Y

The NJM4558 is a dual high-gain operational amplifier internally compensated and constructed on a single silicon chip using an advanced epitaxial process.

· IC1101 & IC1102: VIDEO OUTPUT

Part number:

MM1506XN

Sharp code:

VHIMM1506XN-1Y

This IC extends the series of ICs for video/audio signal switching, with a 2-input 1-output single video switch with 75W driver and input bias (6dB gain).

· IC1201: VIDEO INPUT

Part number:

MM1507XN

Sharp code:

VHIMM1506XN-1Y

This IC extends the series of ICs for video/audio signal switching, with a 2-input 1-output single video switch with 75W driver and input clamp.

FD605WJ (POWER SUPPLY UNIT):

· IC708:

Part number:

NJM2904M

Sharp code:

VHINJM2904M-1Y

The IC consists of two independent, high gain internally frequency compensated operation amplifiers which were designed specifically to operate from single power supply.

· IC706 & IC707: FEEDBACK CONTROL

Part number:

TA76431R

Sharp code:

VHITA76431R-1Y

Adjustable precision shunt regulator for feedback control for driving an optocoupler in power supplies

· IC705: POWER SUPPLY CONTROLLER FOR INVERTER

Part number:

MR4020

Sharp code:

VHIMR4020++-1

A high speed 900V IGBT makes ideal partial resonance operation which ensures high efficiency and low noise.

Very low power consumption at micro-loads (burst mode).

Start-up circuit eliminates the need for start-up resistor.

Excess current protection (ON period limitation, primary current limitation), excess voltage protection, and thermal shut-down function are incorporated.

· IC704: POWER SUPPLY CONTROLLER FOR SIGNAL BOARD

Part number:

MR4030

Sharp code:

VHIMR4030++-1

A high speed 900V IGBT makes ideal partial resonance operation which ensures high efficiency and low noise.

Very low power consumption at micro-loads (burst mode).

Start-up circuit eliminates the need for start-up resistor.

Excess current protection (ON period limitation, primary current limitation), excess voltage protection, and thermal shut-down function are incorporated.

FD607WJ (RC/LED UNIT):

· IC101: OPC

Part number:

TPS850

Sharp code:

VHITPS850++-1Y

The TPS850 is a linear-output photo-IC which incorporates a photodiode and current amp circuit in a single chip. This photo-IC is current output type, so can set up output voltage freely by arbitrary load resistance.

FD608WJ (TUNER UNIT):

• **IC201**: IF-Demodulator/PLL Part number: TDA9886

Sharp code:

VHITDA9886+-1Y

The TDA9886 is an alignment-free multi-standard (PAL, SECAM and NTSC) vision and sound IF signal PLL demodulator for positive and negative modulation including sound AM and FM processing.

This IC features the following.

- * Gain controlled wide-band vision intermediate frequency (VIF) amplifier (AC-coupled).
- * Multi-standard true synchronous demodulation with active carrier regeneration (very linear demodulation, good intermodulation figures reduced harmonics, excellent pulse response).
- Gate phase detector for L/L accent standard.
- * Fully integrated VIF Voltage Controlled Oscillator (VCO), alignment-free; frequencies switchable for all negative modulated standards via I2C bus.
- * 4MHz reference frequency input [signal from phase-locked loop (PLL) tuning system] or operating as crystal oscillator.
- * VIF Automatic Gain Control (AGC) detector for gain control operating as a peak sync detector for negative modulated signals and as a peak white detector for positive modulated signals.



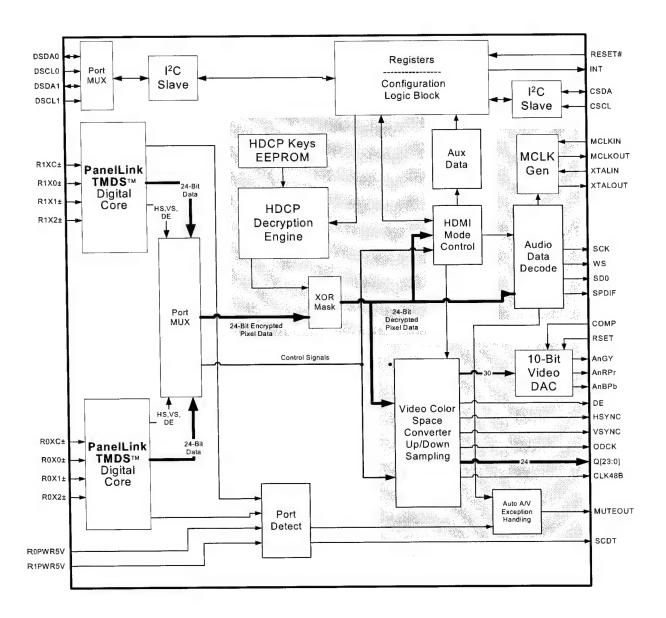
2. Detailed ICs Information

2.1. IC1905 (VHISII9021+-1Q)

2.1.1. Pinning

IOGND	73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 105 105 105 105 105 105 105 105 105	72 🗖 AGND 71 R1x2+					96 L RIXI- 65 L AVCC		-						Si]	55	D []	21						200 P][44 L ROXU-] [][] [38 AVCC		35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 16 15 14 13 12 11 10 9 8 7 6 5		DOGND DOVCC1 ROPPORT DOSCL0 DOSCL1 DO	8 8 8 7/CC18 8 8 NDB CCG NDG CCR NDC CCC CCC CCC CCC CCC CCC CCC CCC CCC
CLK48B LJ IOGND D	108	□ 5 5	3 0	112	113	□ [‡ ;	 { 1 2 4 4 4	4 : 2 :	3	119	□ 2 3 5	122	123	124	125	126	127	⊒ 2 3 8 8] [3 8] [] E	132	133	□1 \&	□ [£ ;	138	13,	3 5 5 5				143				HSYNC DE	
		IOVCC Q23	022	021	020	SVCC18	CGND	9 6	417	Q16	OGND	0000	Q15	014	Q13	Q12	CGND	XCC18	5 6	6	ő	Ω	IOVCC	IOGND	8	5 5	VCC18	8	69	05	٥	8				

2.1.2. Block Diagram





2.2. IC3002 (RH-IXB624WJN1Q)

2.2.1. Pin Connections and Short Description

NC = not connected LV = if not used, leave vacant OBL = obligatory; connect as described in circuit diagram IN = Input Pin ANA = Analog Pin OUT = Output Pin SUPPLY = Supply Pin

VCTP	Pin No.	Pin Name	Туре	Connection	Short Description
PLQFP 208-1				(If not used)	
1		656O6 P4_6 TDOFW	IN/OUT	LV	Digital 656 Bit 6 Output Port 4, Bit 6 Input/Output JTAG Interface Data Output (firmw. Controler)
2		656O5 P4_5 TDIFW	IN/OUT	LV	Digital 656 Bit 5 Output Port 4, Bit 5 Input/Output JTAG Interface Data Input (firmw. Controler)
3		656O4 P4_4 TMSFW	IN/OUT	LV	Digital 656 Bit 4 Output Port 4, Bit 4 Input/Output JTAG Interface Mode Select Input (fw. Contr.)
4		656O3 P4_3 TCLK	IN/OUT	LV	Digital 656 Bit 3 Output Port 4, Bit 3 Input/Output JTAG Interface Clock Input (TV Controler)
5		656O2 P4_2 TDO	IN/OUT	LV	Digital 656 Bit 2 Output Port 4, Bit 2 Input/Output JTAG Interface Data Output (TV Controler)
6		656O1 P4_1 TDI	IN/OUT	LV	Digital 656 Bit 1 Output Port 4, Bit 1 Input/Output JTAG Interface Data Input (TV Controler)
7		656O0 P4_0 TMS	IN/OUT	LV	Digital 656 Bit 0 Output (LSB) Port 4, Bit 0 Input/Output JTAG Interface Mode Select Input (TV Contr.)
8		RESETQ	IN/OUT	OBL	Reset Input/Output
9		AIN1R	IN	GND	Analog Audio 1 Input, Right
10		AIN1L	IN	GND	Analog Audio 1 Input, Left
11		AIN2R	IN	GND	Analog Audio 2 Input, Right
12		AIN2L	IN	GND	Analog Audio 2 Input, Left
13		AIN3R	IN	GND	Analog Audio 3 Input, Right
14		AIN3L	IN	GND	Analog Audio 3 Input, Left
15		AIN4R	IN	GND	Analog Audio 4 Input, Right
16		AIN4L	IN	GND	Analog Audio 4 Input, Left
17		VREFAU	ANA	OBL	Reference Voltage, Audio
18		VSUP8.0AU	SUPPLY	OBL	Supply Voltage Analog Audio, 8.0 V
19		GNDA	SUPPLY	OBL	Ground Analog Audio, Platform Ground
20		SGND	ANA	OBL	Analog Signal GND

VCTP PLQFP 208-1	Pin No.	Pin Name	Туре	Connection (If not used)	Short Description
21		AOUT2R AIN5R	IN/OUT	LV	Analog Audio 2 Output, Right Analog Audio 5 Input, Right
22		AOUT2L AIN5L	IN/OUT	LV	Analog Audio 2 Output, Left Analog Audio 5 Input, Left
23		AOUT1R	OUT	LV	Analog Audio 1 Output, Right
24		AOUT1L	OUT	LV	Analog Audio 1 Output, Left
25		HEADPHONER	OUT	LV	Analog Headphone Output, Right
26		HEADPHONEL	OUT	LV	Analog Headphone Output, Left
27		SPEAKERR	OUT	LV	Analog Loudspeaker Output, Right
28		SPEAKERL	OUT	LV	Analog Loudspeaker Output, Left
29		SUBWOOFER TEST	IN/OUT	LV	Analog SUBWOOFER Output Test Input
30		VREFSIF	ANA	OBL	Reference Voltage, Audio SIF
31		SIFIN+	IN	VREFIF	Differential IF Input
32		SIFIN-	IN	VREF _{IF}	Differential IF Input
33		VSUP5.0SIF	SUPPLY	OBL	Supply Voltage Analog SIF, 5.0 V
34		GNDA	SUPPLY	OBL	Ground Analog SIF, Platform Ground
35		GND3.3DIG	SUPPLY	OBL	Ground Digital Audio Core
36		VSUP3.3DIG	SUPPLY	OBL	Supply Voltage Digital Audio Core, 3.3 V
37		SPDIF_OUT	OUT	LV	SPDIF Output
38		I2S_DA_IN	IN	LV	Audio Bus Data Input
39		I2S_CL	IN	LV	Audio Bus Clock Input
40		12S_WS	IN	LV	Audio Bus Word Strobe Input
41		I2S_DEL_OUT	OUT	LV	Audio Delay Line Bus Data Output
42		I2S_DEL_IN	IN	LV	Audio Delay Line Bus Data Input
43		I2S_DEL_CL	OUT	LV	Audio Delay Line Bus Clock Output
44		I2S_DEL_WS	OUT	LV	Audio Delay Line Bus Word Strobe Output
45		VSUP3.3RAM	SUPPLY	OBL	Supply Voltage Ram, 3.3 V
46		GND3.3RAM	SUPPLY	OBL	Ground Ram
47		DVS	IN	LV	Digital or Analog Video VSYNC HD Input
48		DEN	IN	LV	Digital Video Enable Input
49		DCLK	IN	LV	Digital Video Clock Input
50		DRI7	IN	LV	Digital Video Red 7 Input

VCTP	Pin No.	Pin Name	Туре	Connection	Short Description
PLQFP 208-1				(If not used)	
51		DRI6	IN	LV	Digital Video Red 6 Input
52		DRI5	IN	LV	Digital Video Red 5 Input
53		DRI4	IN	LV	Digital Video Red 4 Input
54		DRI3	IN	LV	Digital Video Red 3 Input
55		DRI2	IN	LV	Digital Video Red 2 Input
56		DRI1	IN	LV	Digital Video Red 1 Input
57		DRI0	IN	LV	Digital Video Red 0 Input (LSB)
58		DGI7	IN	LV	Digital Video Green 7 Input
59		DGI6	IN	LV	Digital Video Green 6 Input
60		DGI5	IN	LV	Digital Video Green 5 Input
61		DGI4	IN	LV	Digital Video Green 4 Input
62		DGI3	IN	LV	Digital Video Green 3 Input
63		DGI2	IN	LV	Digital Video Green 2 Input
64		DGI1	IN	LV	Digital Video Green 1 Input
65		DGI0	IN	LV	Digital Video Green 0 Input (LSB)
66		DBI7	IN	LV	Digital Video Blue 7 Input
67		DBI6	IN	LV	Digital Video Blue 6 Input
68		DBI5	IN	LV	Digital Video Blue 5 Input
69		DBI4	IN	LV	Digital Video Blue 4 Input
70		DBI3	IN	LV	Digital Video Blue 3 Input
71		DBI2	IN	LV	Digital Video Blue 2 Input
72		DBI1	IN	LV	Digital Video Blue 1 Input
73		DBI0	IN	LV	Digital Video Blue 0 Input (LSB)
74		GND3.3DRI	SUPPLY	OBL	Ground Digital Ram Interface
75		VSUP3.3DRI	SUPPLY	OBL	Supply Voltage Digital Ram Interface, 3.3 V
76		GND3.3COM	SUPPLY	OBL	Ground Common
77		VSUP3.3COM	SUPPLY	OBL	Supply Voltage Common, 3.3V
78		XTALIN	IN	OBL	Analog Crystal Input
79		XTALOUT	OUT	OBL	Analog Crystal Output
80		CLKOUT	OUT	LV	Digital 20MHz Clock Output
81		VSO	OUT	LV	Vertical Sync Output, Frontend

VCTP	Pin No.	Pin Name	Туре	Connection	Short Description						
PLQFP 208-1				(If not used)							
82		HSO	OUT	LV	Horizontal Sync Output, Frontend						
83		SCL	IN/OUT	OBL	I ² C Bus Clock Input/Output						
84		SDA	IN/OUT	OBL	I ² C Bus Data Input/Output						
85		GND3.3FL	SUPPLY	OBL	Ground Flash						
86		VSUP3.3FL	SUPPLY	OBL	Supply Voltage Flash, 3.3 V						
87		P2_0	IN/OUT	LV	Port 2, Bit 0 Input/Output						
88		P2_1	IN/OUT	LV	Port 2, Bit 1 Input/Output						
89		P2_2	IN/OUT	LV	Port 2, Bit 2 Input/Output						
90		P2_3	IN/OUT	LV	Port 2, Bit 3 Input/Output						
91		P2_4 TDI	IN/OUT	LV	Port 2, Bit 4 Input/Output JTAG Interface Data Input						
92		P2_5 TMS	IN/OUT	LV	Port 2, Bit 5 Input/Output JTAG Interface Mode Select Input						
93		OSDV DBO2_0	IN/OUT	LV	Graphic Vertical Sync Input/Output Channel 2 Digital 0 Blue Output (LSB)						
94		OSDH DBO2_1	IN/OUT	LV	Graphic Horizontal Sync Input/Output Channel 2 Digital 1 Blue Output						
95		GND3.3IO1	SUPPLY	OBL	Ground Digital Input/Output Port 1						
96		VSUP3.3IO1	SUPPLY	OBL	Supply Voltage Input/Output Port 1, 3.3 V						
97		OSDCLK DBO2_2	IN/OUT	LV	Graphic Clock Input/Output Channel 2 Digital 2 Blue Output						
98		OSDFSW DBO2_3	IN/OUT	LV	Graphic Fast Switch Input/Output Channel 2 Digital 3 Blue Output						
99		OSDHCS1 P3_7 DBO2_4	IN/OUT	LV	Graphic Half Contrast 1 Input/Output Port 3, Bit 7 Input/Output Channel 2 Digital 4 Blue Output						
100		OSDHCS0 P3_6 DBO2_5	IN/OUT	LV	Graphic Half Contrast 0 Input/Output (LSB) Port 3, Bit 6 Input/Output Channel 2 Digital 5 Blue Output						
101		OSDB3 P3_5 DBO2_6	IN/OUT	LV	Graphic Blue 3 Input/Output (MSB) Port 3, Bit 5 Input/Output Channel 2 Digital 6 Blue Output						
102		OSDB2 P3_4 DBO2_7	IN/OUT	LV	Graphic Blue 2 Input/Output Port 3, Bit 4 Input/Output Channel 2 Digital 7 Blue Output (MSB)						
103		OSDB1 DGO2_0	IN/OUT	LV	Graphic Blue 1 Input/Output Channel 2 Digital 0 Green Output (LSB)						
104		OSDB0 DGO2_1	IN/OUT	LV	Graphic Blue 0 Input/Output Channel 2 Digital 1 Green Output						

VCTP	Pin No.	Pin Name	Type	Connection	Short Description						
PLQFP 208-1				(If not used)							
105		OSDG3 P3_3 DGO2_2	IN/OUT	LV	Graphic Green 3 Input/Output (MSB) Port 3, Bit 3 Input/Output Channel 2 Digital 2 Green Output						
106		OSDG2 P3_2 DGO2_3	IN/OUT	LV	Graphic Green 2 Input/Output Port 3, Bit 2 Input/Output Channel 2 Digital 3 Green Output						
107		OSDG1 DGO2_4	IN/OUT	LV	Graphic Green 1 Input/Output Channel 2 Digital 4 Green Output						
108		OSDG0 DGO2_5	IN/OUT	LV	Graphic Green 0 Input/Output Channel 2 Digital 5 Green Output						
109		OSDR3 P3_1 DGO2_6	IN/OUT	LV	Graphic Red 3 Input/Output (MSB) Port 3, Bit 1 Input/Output Channel 2 Digital 6 Green Output						
110		OSDR2 P3_0 DGO2_7	IN/OUT	LV	Graphic Red 2 Input/Output Port 3, Bit 0 Input/Output Channel 2 Digital 7 Green Output (MSB)						
111		OSDR1 DRO2_0	IN/OUT	LV	Graphic Red 1 Input/Output Channel 2 Digital 0 Red Output (LSB)						
112		OSDR0 DRO2_1	IN/OUT	LV	Graphic Red 0 Input/Output (LSB) Channel 2 Digital 1 Red Output						
113		GND3.3IO1	SUPPLY	OBL	Ground Digital Input/Output Port 1						
114		VSUP3.3IO1	SUPPLY	OBL	Supply Voltage Input/Output Port 1, 3.3 V						
115		PCS5 P2_6	IN/OUT	LV	Flat Panel Control Select 5 PWM Output Port 2, Bit 6 Input/Output						
116		PCS4 P2_7	IN/OUT	LV	Flat Panel Control Select 4 REV Output Port 2, Bit 7 Input/Output						
117		PCS3 P4_0	IN/OUT	LV	Flat Panel Control Select 3 DE2 Output Port 4, Bit 0 Input/Output						
118		PCS2 P4_1	IN/OUT	LV	Flat Panel Control Select 2 DE1 Output Port 4, Bit 1 Input/Output						
119		PCS1 P4_2	IN/OUT	LV	Flat Panel Control Select 1 V Output Port 4, Bit 2 Input/Output						
120		PCS0 P4_3	IN/OUT	LV	Flat Panel Control Select 0 H Output Port 4, Bit 3 Input/Output						
121		PCLK2	OUT	LV	Flat Panel Control Clock 2 Output						
122		PCLK1	OUT	LV	Flat Panel Control Clock 1 Output						
123		GND1.8DIG	SUPPLY	OBL	Ground Digital Core						
124		VSUP1.8DIG	SUPPLY	OBL	Supply Voltage Digital Core, 1.8 V						
125		DBO1_0 DRO2_2 LVDSA_4P	OUT	LV	Channel 1 Digital 0 Blue Output ¹⁾ (LSB) Channel 2 Digital 2 Red Output ¹⁾ LVDS Channel 1 bit 4 Positive Output ²⁾						

VCTP F	Pin No.	Pin Name	Туре	Connection	Short Description
PLQFP 208-1				(If not used)	
126	i Me	DBO1_1 DRO2_3 LVDSA_4N	OUT	LV	Channel 1 Digital 1 Blue Output ¹⁾ Channel 2 Digital 3 Red Output ¹⁾ LVDS Channel 1 bit 4 Negative Output ²⁾
127		DBO1_2 DRO2_4 VSUP3.3LVDS	OUT SUPPLY	LV	Channel 1 Digital 2 Blue Output ¹⁾ Channel 2 Digital 4 Red Output ¹⁾ Supply Digital Voltage LVDS ²⁾ Port, 3.3 V
128		DBO1_3 DRO2_5 LVDSA_3P	OUT	LV	Channel 1 Digital 3 Blue Output ¹⁾ Channel 2 Digital 5 Red Output ¹⁾ LVDS Channel 1 bit 3 Positive Output ²⁾
129		DBO1_4 DRO2_6 LVDSA_3N	OUT	LV	Channel 1 Digital 4 Blue Output ¹⁾ Channel 2 Digital 6 Red Output ¹⁾ LVDS Channel 1 bit 3 Negative Output ²⁾
130		DBO1_5 DRO2_7 GND3.3LVDS	OUT SUPPLY	LV OBL	Channel 1 Digital 5 Blue Output ¹⁾ Channel 2 Digital 7 Red Output ¹⁾ (MSB) Ground Digital LVDS ²⁾ , 3.3 V
131		DBO1_6 DBO1_0 LVDSA_CLKP	OUT	LV	Channel 1 Digital 6 Blue Output ¹⁾ Channel 1 Digital 0 Blue Output ¹⁾ (LSB) LVDS Channel 1 Clock Positive Output ²⁾
132		DBO1_7 DBO1_1 LVDSA_CLKN	OUT	LV	Channel 1 Digital 7 Blue Output ¹⁾ Channel 1 Digital 1 Blue Output ¹⁾ LVDS Channel 1 Clock Negative Output ²⁾
133		VSUP3.3IO2 VSUP3.3LVDS	SUPPLY	OBL	Supply Digital Output ¹⁾ Port 2 Supply Digital Voltage LVDS ²⁾ , 3.3 V
134		GND3.3IO2 LVDSA_2P	SUPPLY OUT	OBL LV	Ground Voltage Output ¹⁾ Port 2, 3.3 V LVDS Channel 1 bit 2 Positive Output ²⁾
135		DBO1_8 DBO1_2 LVDSA_2N	OUT	LV	Channel 1 Digital 8 Blue Output ¹⁾ Channel 1 Digital 2 Blue Output ¹⁾ LVDS Channel 1 bit 2 Negative Output ²⁾
136		DBO1_9 DBO1_3 GND3.3LVDS	OUT SUPPLY	LV OBL	Channel 1 Digital 9 Blue Output ¹⁾ (MSB) Channel 1 Digital 3 Blue Output ¹⁾ Ground Digital LVDS ²⁾ , 3.3 V
137		DGO1_0 DBO1_4 LVDSA_1P	OUT	LV	Channel 1 Digital 0 Green Output ¹⁾ (LSB) Channel 1 Digital 4 Blue Output ¹⁾ LVDS Channel 1 bit 1 Positive Output ²⁾
138		DGO1_1 DBO1_5 LVDSA_1N	OUT	LV	Channel 1 Digital 1 Green Output ¹⁾ Channel 1 Digital 5 Blue Output ¹⁾ LVDS Channel 1 bit 1 Negative Output ²⁾
139		DGO1_2 DBO1_6 VSUP3.3LVDS	OUT SUPPLY	LV OBL	Channel 1 Digital 2 Green Output ¹⁾ Channel 1 Digital 6 Blue Output ¹⁾ Supply Digital Voltage LVDS ²⁾ , 3.3 V
140		DGO1_3 DBO1_7 LVDSA_0P	OUT	LV	Channel 1 Digital 3 Green Output ¹⁾ Channel 1 Digital 7 Blue Output ¹⁾ (MSB) LVDS Channel 1 bit 0 Positive Output ²⁾

VCTP Pin No.		Pin Name	Туре	Connection	Short Description
PLQFP 208-1			31	(If not used)	
141		DGO1_4 DGO1_0 LVDSA_0N	OUT	LV	Channel 1 Digital 4 Green Output ¹⁾ Channel 1 Digital 0 Green Output ¹⁾ (LSB) LVDS Channel 1 bit 0 Negative Output ²⁾
142		DGO1_5 DGO1_1 VSUP1.8LVDS	OUT SUPPLY	LV OBL	Channel 1 Digital 5 Green Output ¹⁾ Channel 1 Digital 1 Green Output ¹⁾ Supply Analog Voltage LVDS ²⁾ , 1.8 V
143		DGO1_6 DGO1_2 REXT	OUT ANA	LV OBL	Channel 1 Digital 6 Green Output ¹⁾ Channel 1 Digital 2 Green Output ¹⁾ LVDS External Resistor ²⁾
144		DGO1_7 DGO1_3 GND1.8LVDS	OUT	LV OBL	Channel 1 Digital 7 Green Output ¹⁾ Channel 1 Digital 3 Green Output ¹⁾ Ground Analog LVDS ²⁾ , 1.8 V
145		DGO1_8 DGO1_4 LVDSB_3P	OUT	LV	Channel 1 Digital 8 Green Output ¹⁾ Channel 1 Digital 4 Green Output ¹⁾ Dual-LVDS Channel 2 bit 3 Positive Output ²⁾
146		DGO1_9 DGO1_5 LVDSB_3N	OUT	LV	Channel 1 Digital 9 Green Output ¹⁾ (MSB) Channel 1 Digital 5 Green Output ¹⁾ Dual-LVDS Channel 2 bit 3 Negative Output ²⁾
147		DRO1_0 DGO1_6 GND3.3LVDS	OUT SUPPLY	LV OBL	Channel 1 Digital 0 Red Output ¹⁾ (LSB) Channel 1 Digital 6 Green Output ¹⁾ Ground Digital LVDS ²⁾ , 3.3 V
148		DRO1_1 DGO1_7 LVDSBCLKP	OUT	LV	Channel 1 Digital 1 Red Output ¹⁾ Channel 1 Digital 7 Green Output ¹⁾ (MSB) Dual-LVDS Channel 2 Clock Positive Output ²⁾
149		GND3.3IO2 LVDSBCLKN	SUPPLY OUT	OBL LV	Ground Digital Output ¹⁾ Port 2 Dual-LVDS Channel 2 Clock Negative Output ²⁾
150		VSUP3.3IO2 VSUP3.3LVDS	SUPPLY	OBL	Supply Voltage Output ¹⁾ Port 2, 3.3 V Supply Digital Voltage LVDS ²⁾ , 3.3 V
151		DRO1_2 DRO1_0 LVDSB_2P	OUT	LV	Channel 1 Digital 2 Red Output ¹⁾ Channel 1 Digital 0 Red Output ¹⁾ (LSB) Dual-LVDS Channel 2 bit 2 Positive Output ²⁾
152		DRO1_3 DRO1_1 LVDSB_2N	OUT	LV	Channel 1 Digital 3 Red Output ¹⁾ Channel 1 Digital 1 Red Output ¹⁾ Dual-LVDS Channel 2 bit 2 Negative Output ²⁾
153		DRO1_4 DRO1_2 GND3.3LVDS	OUT	LV OBL	Channel 1 Digital 4 Red Output ¹⁾ Channel 1 Digital 2 Red Output ¹⁾ Ground Digital LVDS ²⁾ , 3.3 V
154		DRO1_5 DRO1_3 LVDSB_1P	OUT	LV	Channel 1 Digital 5 Red Output ¹⁾ Channel 1 Digital 3 Red Output ¹⁾ Dual-LVDS Channel 2 bit 1 Positive Output ²⁾
155		DRO1_6 DRO1_4 LVDSB_1N	OUT	LV	Channel 1 Digital 6 Red Output ¹⁾ Channel 1 Digital 4 Red Output ¹⁾ Dual-LVDS Channel 2 bit 1 Negative Output ²⁾

VCTP	Pin No.	Pin Name	Туре	Connection	Short Description
PLQFP 208-1				(If not used)	
156		DRO1_7 DRO1_5 VSUP3.3LVDS	OUT SUPPLY	LV	Channel 1 Digital 7 Red Output ¹⁾ Channel 1 Digital 5 Red Output ¹⁾ Supply Digital Voltage LVDS ²⁾ , 3.3 V
157		DRO1_8 DRO1_6 LVDSB_0P	OUT	LV	Channel 1 Digital 8 Red Output ¹⁾ Channel 1 Digital 6 Red Output ¹⁾ Dual-LVDS Channel 2 bit 0 Positive Output ²⁾
158		DRO1_9 DRO1_7 LVDSB_0N	OUT	LV	Channel 1 Digital 9 Red Output ¹⁾ (MSB) Channel 1 Digital 7 Red Output ¹⁾ (MSB) Dual-LVDS Channel 2 bit 0 Negative Output ²⁾
159		P1_7 TDO	IN/OUT	OBL	Port 1, Bit 7 Input/Output JTAG Interface Data Output
160		P1_6 TCLK	IN/OUT	OBL	Port 1, Bit 6 Input/Output JTAG Interface Clock Input
161		P1_5	IN/OUT	LV	Port 1, Bit 5 Input/Output
162		P1_4	IN/OUT	LV	Port 1, Bit 4 Input/Output
163		GND3.3DAC	SUPPLY	OBL	Ground DAC
164		VSUP3.3DAC	SUPPLY	OBL	Supply Voltage DAC, 3.3V
165		P1_3 ROUT	IN/OUT	LV	Port 1, Bit 3 Input/Output Analog Red Output
166		P1_2 GOUT	IN/OUT	LV	Port 1, Bit 2 Input/Output Analog Green Output
167		P1_1 BOUT	IN/OUT	LV	Port 1, Bit 1 Input/Output Analog Blue Output
168		P1_0 SVMOUT	IN/OUT	LV	Port 1, Bit 0 Input/Output Scan Velocity Modulation Output
169		VSUP1.8FE	SUPPLY	OBL	Supply Voltage Analog Video Frontend, 1.8 V
170		VSUP3.3FE	SUPPLY	OBL	Supply Voltage Analog Video Frontend, 3.3 V
171		VIN22 DHS	IN	GND	Analog Video 22 H-Sync Input Digital Video H-Sync Input
172		VIN21	IN	GND	Analog Video 21 B HD Input
173		VIN20	IN	GND	Analog Video 20 G HD Input
174		VIN19	IN	GND	Analog Video 19 R HD Input
175		VIN18	IN	GND	Analog Video 18 Fast Blank 2 Input
176		VIN17	IN	GND	Analog Video 17 B HD Input
177		VIN16	IN	GND	Analog Video 16 G HD Input
178		VIN15	IN	GND	Analog Video 15 R HD Input
179		VIN13	IN	GND	Analog Video 13 B HD Input

	VCTP Pin No. Pin Name LQFP 08-1		Туре	Connection	Short Description
208-1				(If not used)	
180		VIN12	IN	GND	Analog Video 12 G HD Input
181		VIN11	IN	GND	Analog Video 11 R HD Input
182		VIN9	IN	GND	Analog Video 9 Y or B SD Input
183		VIN8	IN	GND	Analog Video 8 C or Fast Blank 1 Input
184		VIN7	IN	GND	Analog Video 7 Y or G SD Input
185		VSUP1.8FE	SUPPLY	OBL	Supply Voltage Analog Video Frontend, 1.8 V
186		GNDA	SUPPLY	OBL	Analog Video Frontend, Platform Ground
187		VIN6	IN	GND	Analog Video 6 C or R SD Input
188		VIN5	IN	GND	Analog Video 5 Y/CVBS Input
189		VIN3	IN	GND	Analog Video 3 CVBS Input
190		VIN2	IN	GND	Analog Video 2 CVBS Input
191		VIN1	IN	GND	Analog Video 1 CVBS Input
192		VSUP3.3VO	SUPPLY	OBL	Supply Voltage Analog Video Output, 3.3 V
193		VOUT3	OUT	LV	Analog cvbs Video 3 Output
194		VOUT2	OUT	OBL	Analog cvbs Video 2 Output
195		VOUT1	OUT	OBL	Analog cvbs Video 1 Output
196		GND3.3IO3	SUPPLY	OBL	Ground Digital Input/Output Port 1
197		VSUP3.3IO3	SUPPLY	OBL	Supply Voltage Input/Output Port 1, 3.3 V
198		656I0 P3_0	IN/OUT	LV	Digital 656 Bit 0 Input (LSB) Port 3, Bit 0 Input/Output
199		656I1 P3_1	IN/OUT	LV	Digital 656 Bit 1 Input Port 3, Bit 1 Input/Output
200		656I2 P3_2	IN/OUT	LV	Digital 656 Bit 2 Input Port 3, Bit 2 Input/Output
201		656I3 P3_3	IN/OUT	LV	Digital 656 Bit 3 Input Port 3, Bit 3 Input/Output
202		656l4 P3_4	IN/OUT	LV	Digital 656 Bit 4 Input Port 3, Bit 4 Input/Output
203		656I5 P3_5	IN/OUT	LV	Digital 656 Bit 5 Input Port 3, Bit 5 Input/Output
204		656I6 P3_6	IN/OUT	LV	Digital 656 Bit 6 Input Port 3, Bit 6 Input/Output
205		656I7 P3_7	IN/OUT	LV	Digital 656 Bit 7 Input Port 3, Bit 7 Input/Output
206		656CLKI	IN/OUT	GND	Digital 656 Clock Input

VCTP Pi	in No.	Pin Name	Туре	Connection	Short Description
PLQFP 208-1				(If not used)	
207		656CLKO	OUT	LV	Digital 656 Clock Output
208		65607 P4_7 TCLKFW	IN/OUT	LV	Digital 656 Bit 7 Output Port 4, Bit 7 Input/Output JTAG Interface Clock Input (firmw. Controler)

Display		CRT									FPD													
Application	Ana	alog	RGB	+ SV	MOL	JT + 1	H + V	'	TTL	. (Sin	gle f		TTL (Dual RGB)											
Panel control									X	X	X	×	х	X	×	X	Х	X	X	X				
656IN	х	X	X		X	X			X	Х	х		Х	X			Х		Х					
656OUT	X	x	х	×					×	Х	X	х					X	Х						
OSD444	Х			X	X		Х		Х			Х	×		Х									
OSD222		х		1.0.0.		X				×				X										
Port 1	4	4	4	4	4	4	4	4	8	8	8	8	8	8	8	8	8	8	8	8				
Port 2	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6				
Port 3		6	8	8		6	8	8		6	6	8		6	8	8		8		8				
Port 4	2	2	2	2	8	8	8	8					8	8	8	8			8	8				
Max Number of Ports	14	20	22	22	20	26	28	28	14	20	20	22	22	28	30	30	14	22	22	30				

Maximum Number of Ports

only in RGB output versiononly in LVDS output version

2.2.2. Pin Descriptions

2.2.2.1. Supply Pins

VSUP1.8DIG - Supply Voltage 1.8 V

This pin is main and standby supply for the digital core logic of controller, video and display processing.

VSUP1.8FE - Supply Voltage 1.8 V

This pin is main and standby supply for the analog video frontend.

VSUP3.3FE - Supply Voltage 3.3 V

This pin is main and standby supply for the analog video frontend.

VSUP3.3VO - Supply Voltage 3.3 V

This pin is main and standby supply for the analog video outputs.

VSUP1.8LVDS - Supply Voltage 1.8 V

This pin is main and standby supply for the analog LVDS core.

VSUP3.3LVDS - Supply Voltage 3.3 V

This pin is main and standby supply for the Digital LVDS port.

VSUP3.3FL - Supply Voltage 3.3 V

This pin is main and standby supply for the Flash device.

VSUP3.3DRI - Supply Voltage 3.3 V

This pin is main supply for the digital RAM interface.

VSUP3.3RAM – Supply Voltage 3.3 V

This pin is main supply for the RAM device

VSUP3.3IO 1-3 - Supply Voltage 3.3 V

This 3 pins are main and standby supply for the digital I/O-ports.

VSUP3.3COM - Supply Voltage 3.3 V

This pin is main and standby supply for the digital Input ports and common digital logic.

VSUP3.3DIG - Supply Voltage 3.3 V

This pin is main supply for the digital core logic of IF and audio processing and digital video backend.

VSUP8.0AU - Supply Voltage 8.0 V

This pin is main supply for the analog audio processing.

VSUP5.0SIF – Supply Voltage 5.0 V

This pin is main supply for the SIF processing.

VSUP3.3DAC - Supply Voltage 3.3 V

This pin is main and standby supply for the Analog DAC.

GND* - Ground

This pin are main ground for all digital analog and port supplies.

Application Note:

All GND pins must be connected to a low-resistive ground plane underneath the IC. All supply pins must be connected separately with short and low-resistive lines to the power supply. Decoupling capacitors from VSUPxx to GND have to be placed as closely as possible to these pins. It is recommended to use more than one capacitor. By choosing different values, the frequency range of active decoupling can be extended.

2.2.2.2 Audio Pins

VREFAU - Reference Voltage for Analog Audio

This pin serves as the internal ground connection for the analog audio circuitry. It must be connected to the GND pin with a 3.3 μF and a 100 nF capacitor in parallel

SGND - Analog Reference Input

This is the reference ground Analog Audio part.

AIN1 R/L - Audio 1 Inputs

The analog input signal for audio 1 is fed to this pin. Analog input connection must be AC coupled.

AIN2 R/L - Audio 2 Inputs

The analog input signal for audio 2 is fed to this pin. Analog input connection must be AC coupled.

AIN3 R/L - Audio 3 Inputs

The analog input signal for audio 3 is fed to this pin. Analog input connection must be AC coupled.

AIN4 R/L - Audio 4 Inputs

The analog input signal for audio 4 is fed to this pin. Analog input connection must be AC coupled.

AIN5 R/L - Audio 5 Inputs

The analog input signal for audio 5 is fed to this pin. Analog input connection must be AC coupled.

AOUT1 R/L - Audio 1 Outputs

Output of the analog audio 1 signal. Connections to these pins are intended to be AC coupled.

AOUT2 R/L - Audio 2 Outputs

Output of the analog audio 2 signal. Connections to these pins are intended to be AC coupled.

SPEAKER R/L - Loudspeaker Outputs

Output of the loudspeaker signal.

HEADPHONES R/L – Headphones Outputs

Output of the headphones signal.

2.2.2. Pin Descriptions (Continued)

SUBWOOFER – Subwoofer Outputs Output of the subwoofer signal

I2S_DEL_WS - Delay Line Bus Word Strobe This is the word strobe signal of the delay line bus.

I2S_DEL_CL - Delay Line Bus Clock
This is the Clock signal of the delay line bus.

I2S_DEL_IN - Delay Line Bus Data Input
This is the data input signal of the delay line bus.

I2S_DEL_OUT - Delay Line Bus Data Output This is the data output signal of the delay line bus.

I2S_WS - I2S Word Strobe
This is the word strobe signal of I2S bus.

I2S_DA_IN - I2S Data Input
This is the data input signal of I2S bus.

I2S_CL - I2S Clock
This is the Clock signal of I2S bus.

SPDIF_OUT -

This is an SPDIF output signal to connect to an A/V receiver.

SIF -/+ - Sound IF Input
This is the SIF input to connect to an external DRX.

VREFSIF – Reference Voltage for SIF This pin serves as the internal ground connection for the analog audio circuitry.

2.2.2.3 Video Pins

656I 0-7 – Digital 656 Data Input These are the 8 bits digital 656 video inputs.

656CLKI – Digital 656 Input clock This is the clock for the digital 656 video inputs.

6560 0-7 – Digital 656 Data Output These are the 8 bits digital 656 video outputs.

656CLKO– Digital 656 output clock
This is the clock for the digital 656 video outputs.

OSDR 0-3 – Graphic Data input/output These are the 2 or 4 bit graphic input/output

OSDG 0-3 – Graphic Data input/output These are the 2 or 4 bit graphic input/output

OSDB 0-3 – Graphic Data input/output These are the 2 or 4 bit graphic input/output

OSDHCS 0-1 – Graphic Half Contrast Input/Output This is the half contrast for the graphic input/output

OSDFSW – Graphic Fast Switch Input/Output This is the fast switch for the graphic input/output

OSDCLK – Graphic clock Input/Output
This is the clock for the graphic video input/output

OSDV – Graphic vertical sync Input/Output
This is the vertical sync for the graphic input/output

OSDH – Graphic horizontal sync Input/Output This is the horizontal sync signal for the graphic I/O

DRO1_ 0-9 - Digital Red Outputs This are 10 bits digital signals for red outputs, for dual RGB use bits (0-7).

DGO1_ 0-9 - Digital Green Output This are 10 bits digital signals for green outputs, for dual RGB use bits (0-7).

DBO1_ 0-9 - Digital Blue Outputs This are 10 bits digital signals for blue outputs, for dual RGB use bits (0-7).

DRO2_ 0-7 - Digital dual Red Outputs
This are 8 bits digital signals for red outputs.

DGO2_ 0-7 - Digital dual Green Output This are 8 bits digital signals for green outputs.

DBO2_ 0-7 - Digital dual Blue Outputs
This are 8 bits digital signals for blue outputs.

PCS 0-5 - LCD Panel Control Select Outputs
This are 6 control select signals for LCD outputs.
For CRT application use PCS_0 as H sync and PCS_1 as V sync Back End.

PCLK1,2 - LCD Panel Clock Outputs
This are the clock signals for LCD/RGB outputs.

LVDSA_* - LCD Panel LVDS Outputs
This are 12 signals and clocks for LVDS single or dual output.

LVDSB_* - LCD Panel LVDS Outputs
This are 10 signals and clocks for LVDS dual output.

REXT - LVDS External Resistor This pin is connected to the external LVDS resistor. (6.2 kOhm to gnd)

DRI 0-7 - Digital video inputs for Red This are 8 bits digital inputs for red signal

DGI 0-7- Digital video inputs for Green This are 8 bits digital inputs for green signal

DBI 0-7- Digital video inputs for Blue This are 8 bits digital inputs for blue signal.

LC-32GA8/LC-32BV8 LC-37GA8/LC-37BV8

DEN - Digital video inputs Enable
This is the enable signal for the Digital Video Inputs.

DHS - Digital video inputs Horizontal Sync This is the H Sync signal for the Digital RGB input bus or for the VGA Video Inputs.

DVS - Digital video inputs Vertical Sync This is the V Sync signal for the Digital RGB input bus or for the VGA Video Inputs.

DCLK - Digital video inputs Clock This is the Clock signal for the Digital Video Inputs.

CLKOUT – Digital Output clock This is a 20MHz clock for the external video ICs.

VIN 1–22 – Analog Video Input
These are the 19 analog video inputs.
(Vin 4,10 and 14 are missing)
A CVBS, S-VHS, YCrCb or RGB signal is converted using the luma, chroma and component AD converter.
Vin 8,18 are fast blank inputs. Vin22 is an Hsync input.
The input signals must be AC-coupled.

VOUT 1-3 – Analog Video Output
The analog video inputs that are selected by the video matrix are output at these pins.

ROUT, GOUT, BOUT – Analog RGB Output These pins are the analog Red/Green/Blue outputs of the back-end.

SVMOUT – Scan Velocity Modulation Output This output delivers the analog SVM signal. The D/A converter is a current sink like the RGB D/A converters. At zero signal the output current is 50% of the maximum output current.

2.2.2.4 Controller Pins

XTALIN Crystal Input and **XTALOUT** Crystal Output These pins are connected to an 20.25 MHz crystal oscillator. An external clock can be fed into XTALIN.

RESETQ – Reset Input/Output A low level on this pin resets the VCT 69xyP. The internal CPU can pull down this pin to reset external devices connected to this pin.

TEST – Test Input This pin enables factory test modes. For normal operation, it must be connected to ground.

SCL – I²C Bus Clock
This pin delivers the I²C bus clock line. The signal can be pulled down by external slave ICs to slow down data transfer.

SDA – I^2 C Bus Data This pin delivers the I^2 C bus data line.

P1_0-P1_3 - I/O Port
These pins provide CPU controlled I/O ports.

P1_4-P1_7 - I/O Port
These pins provide CPU controlled I/O ports.
Also used as CADC1-4 - Controller A/D inputs 1 to 4.
This 4 pins are analog/digital converters from the controller

P2_0-P2_7 - I/O Port
These pins provide CPU controlled I/O ports.

P3_0-P3_7 - I/O Port
These pins provide CPU controlled I/O ports.

P4_0-P4_7 - I/O Port
These pins provide CPU controlled I/O ports.

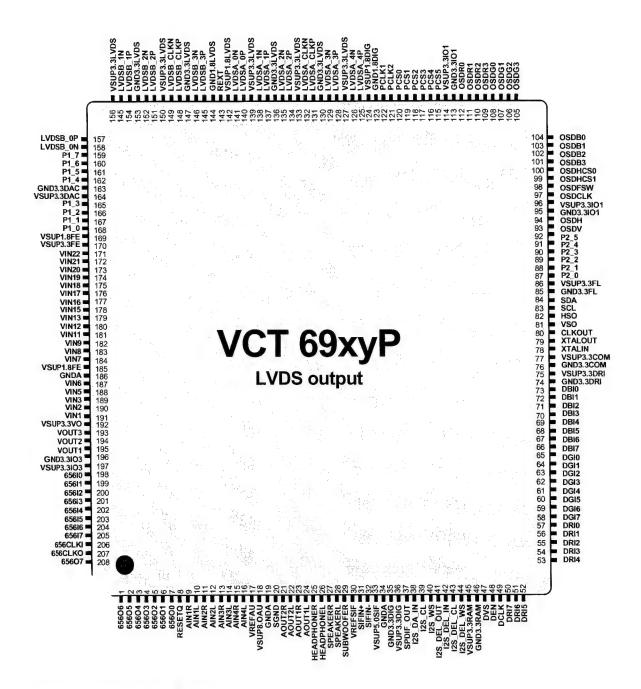
TDO-TCLK-TDI-TMS -JTAG Interface Pins for TV controler.

TCLK at pin 4 (65603) has during reset an internal pull up: (TCLK=0) at end of reset enables the JTAG mode at 656 LSB's, this can also be done via I2C.

This JTAG is also available at Port(1 and 2) but only via I2C.

TDOFW-TCLKFW-TDIFW-TMSFW -JTAG Interface Pins for firmware controler.

TCLKFW at pin 208 (656O7) has during reset an internal pull up: (TCLKFW=0) at end of reset enables the JTAG mode, this can also be done via I2C.

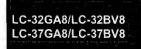


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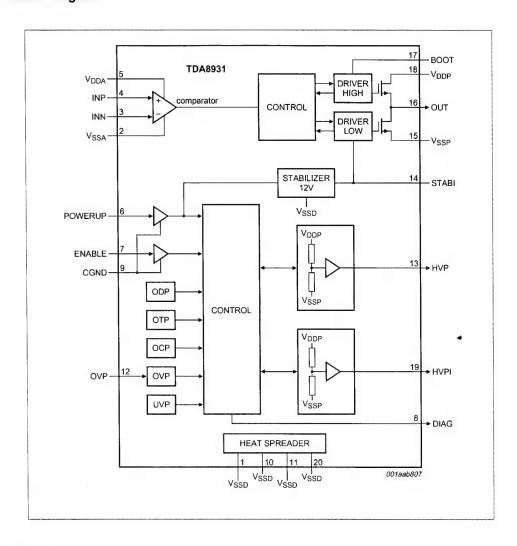
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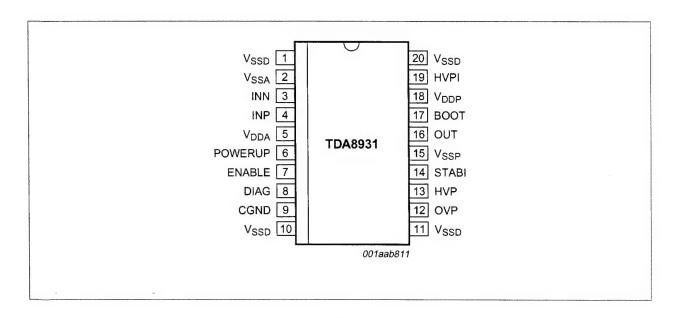


2.3. IC301, IC302 (VHITDA8931T-1Y)

2.3.1. Block Diagram

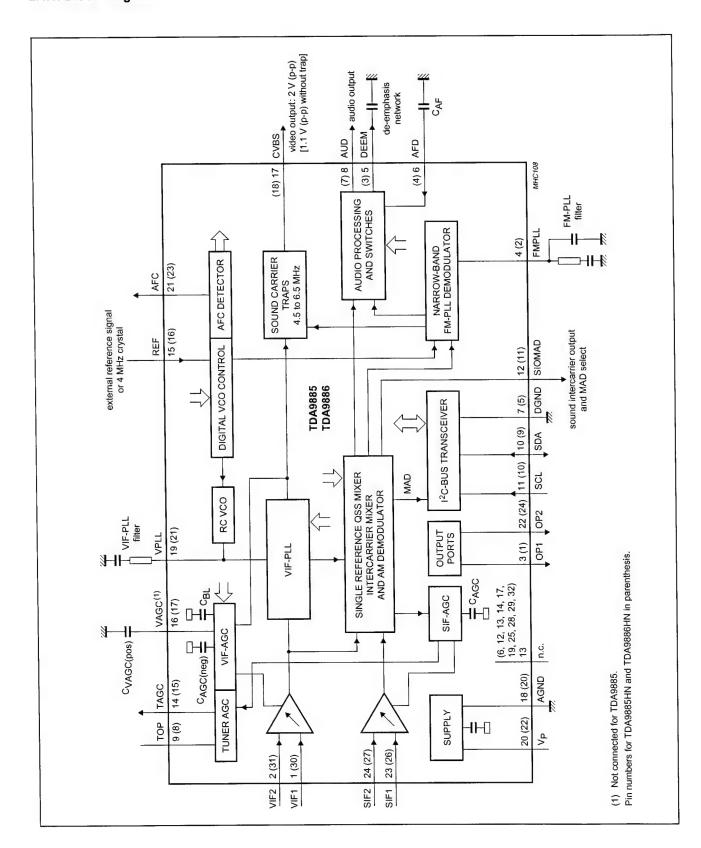


2.3.2. Pinning



2.4. IC201 (VHITDA9886+-1Y)

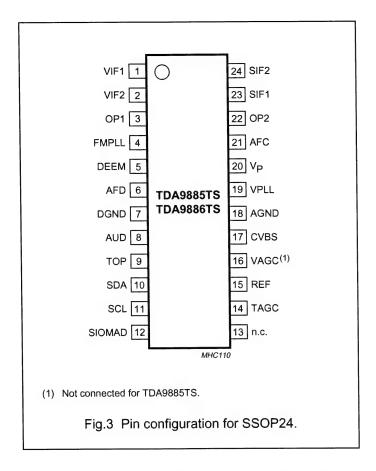
2.4.1. Block Diagram



2.4.2. Pinning

SYMBOL	PIN				
	TDA9885T TDA9885TS	TDA9886T TDA9886TS	TDA9885HN	TDA9886HN	DESCRIPTION
VIF1	1	1	30	30	VIF differential input 1
VIF2	2	2	31	31	VIF differential input 2
n.c.	_		32	32	not connected
OP1	3	3	1	1	output port 1; open-collector
FMPLL	4	4	2	2	FM-PLL for loop filter
DEEM	5	5	3	3	de-emphasis output for capacitor
AFD	6	6	4	4	AF decoupling input for capacitor
DGND	7	7	5	5	digital ground
n.c.	_	_	6	6	not connected
AUD	8	8	7	7	audio output
TOP	9	9	8	8	tuner AGC TakeOver Point (TOP) for resistor adjustment
SDA	10	10	9	9	I ² C-bus data input and output
SCL	11	11	10	10	I ² C-bus clock input
SIOMAD	12	12	11	11	sound intercarrier output and MAD select with resistor
n.c.	_	_	12	12	not connected
n.c.	13	13	13	13	not connected
n.c.	_	_	14	14	not connected
TAGC	14	14	15	15	tuner AGC output
REF	15	15	16	16	4 MHz crystal or reference signal input
VAGC	_	16	_	17	VIF-AGC for capacitor
n.c.	16	-	17	_	not connected
CVBS	17	17	18	18	composite video output
n.c.	_	_	19	19	not connected
AGND	18	18	20	20	analog ground
VPLL	19	19	21	21	VIF-PLL for loop filter
V _P	20	20	22	22	supply voltage
AFC	21	21	23	23	AFC output
OP2	22	22	24	24	output port 2; open-collector
n.c.	_	_	25	25	not connected
SIF1	23	23	26	26	SIF differential input 1 and MAD select with resistor
SIF2	24	24	27	27	SIF differential input 2 and MAD select with resistor
n.c.	_	_	28	28	not connected
n.c.	_	_	29	29	not connected

2.4.2. Pinning (Continued)



SOURCE OF DOCUMENTATION

IC1905 Sil9021.

SILICON IMAGE Data Sheet: Sil9021 HDMI PanelLink Cinema Receiver Doc: SiL-DS-0117-A. August 2004.

IC201 TDA9886.

PHILIPS Semiconductors Product Specification:

TDA9885;TDA9886 I2C-bus controlled single and multistandard alignment-free IF-PLL demodulators. 2003 Oct 02

http://www.semiconductors.philips.com/acrobat download/datasheets/TDA9885_TDA9886_2.pdf

IC301, IC302 TDA8931.

PHILIPS Semiconductors Preliminary Data Sheet:

TDA8931 Power Comparator 1x20W

Doc: 9397 750 13847 Rev.01. 14 January 2004

http://www.semiconductors.philips.com/acrobat_download/datasheets/TDA8931_1.pdf

IC3002 VCT69xyP.

MICRONAS Avance Information:

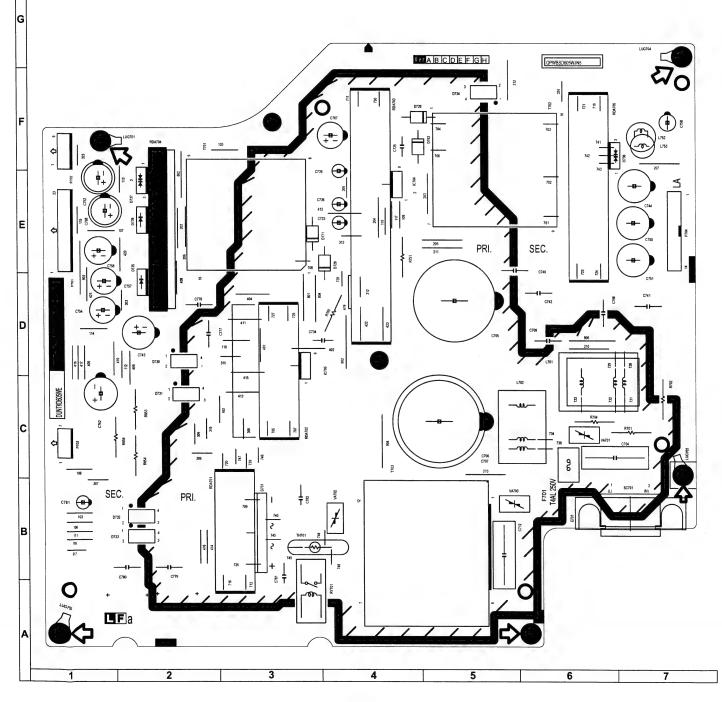
VCT69xyP Video-Controller-Text-Audio IC Family for DoubleScan and FPD TV

Doc: 6251-644-1-1Al. November 3, 2004

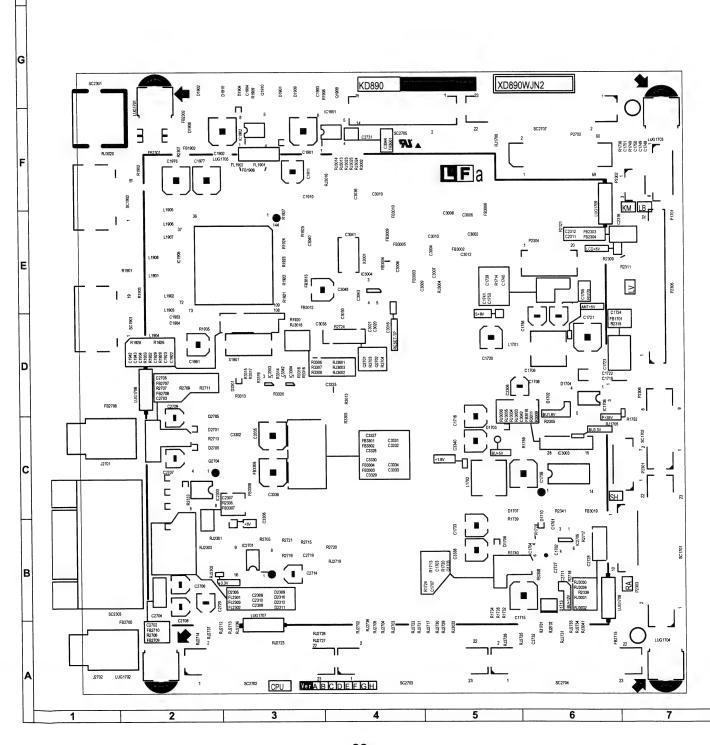


CHASSIS LAYOUT

Power Supply Unit Layout QPWBSD605WJN3

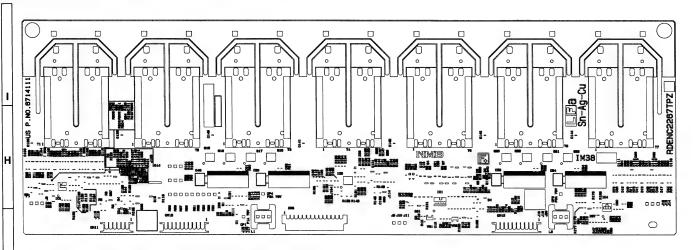


Main Unit Layout QPWBXD890WJN2

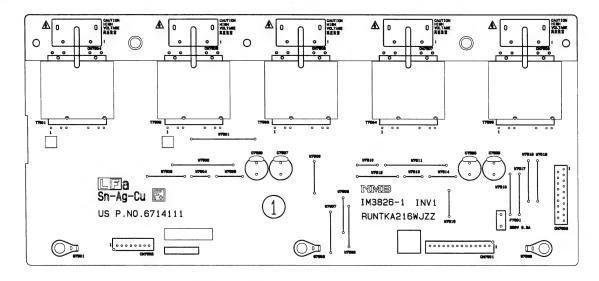




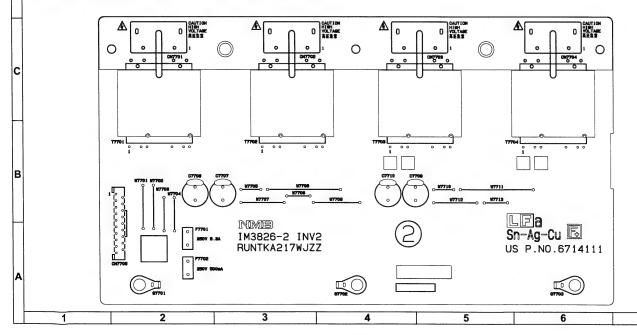
Inverter Unit Layout RDENC2266TPZC



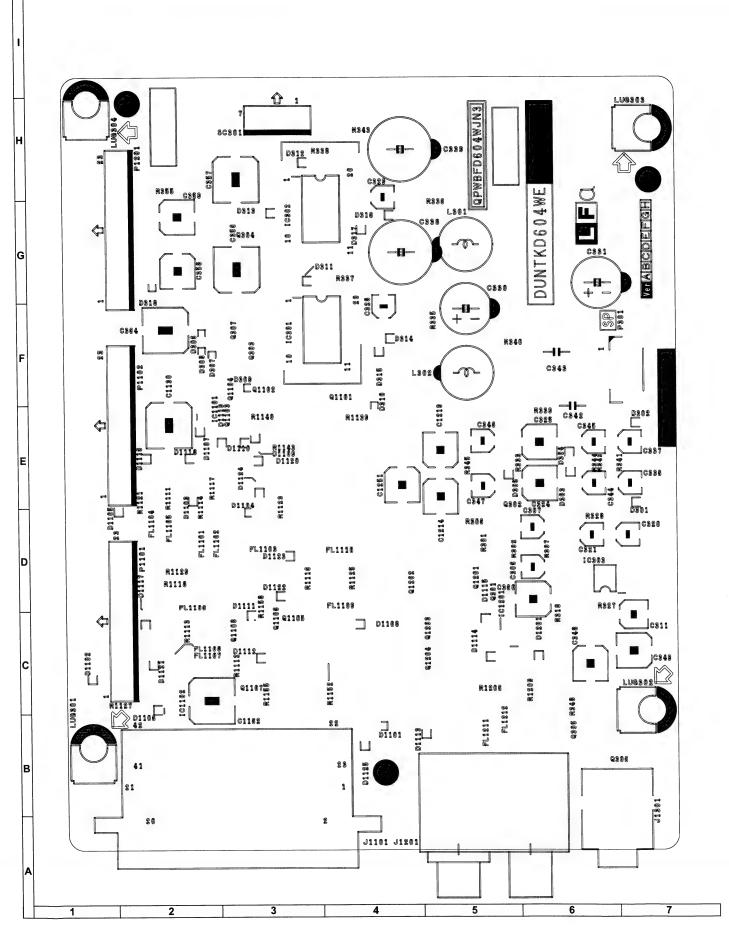
Inverter Unit Layout RUNTKA216WJZZ



Inverter Unit Layout RUNTKA217WJZZ



AV Unit Layout QPWBFD604WJN3

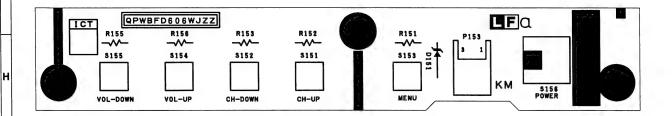




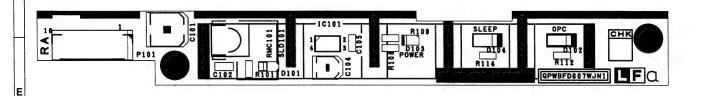
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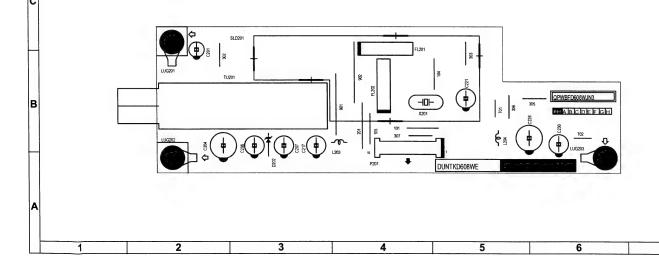
KEY Unit Layout QPWBFD606WJZZ



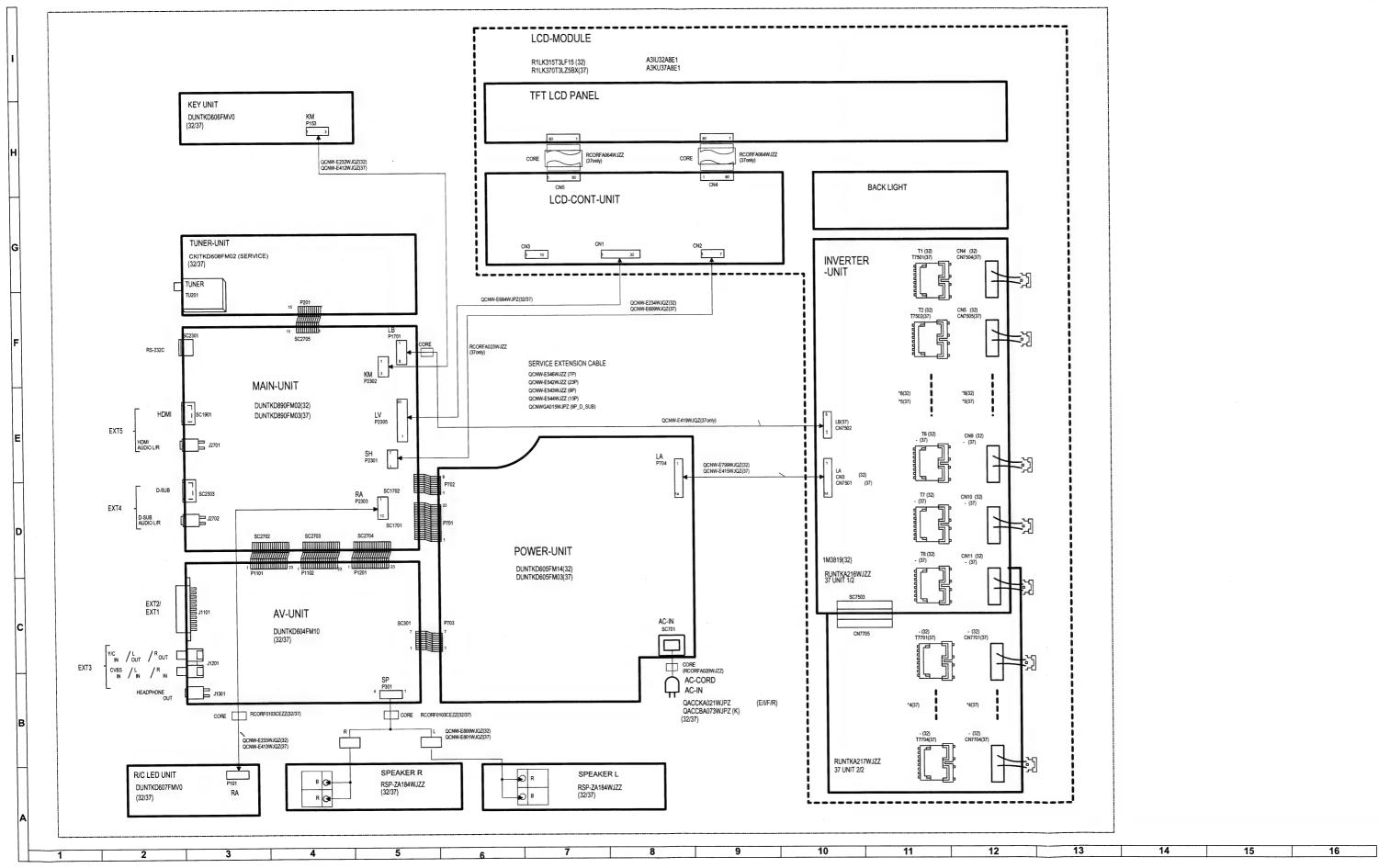
RC/LED Unit Layout QPWBFD607WJN1

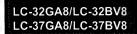


TUNER Unit Layout QPWBFD608WJN3



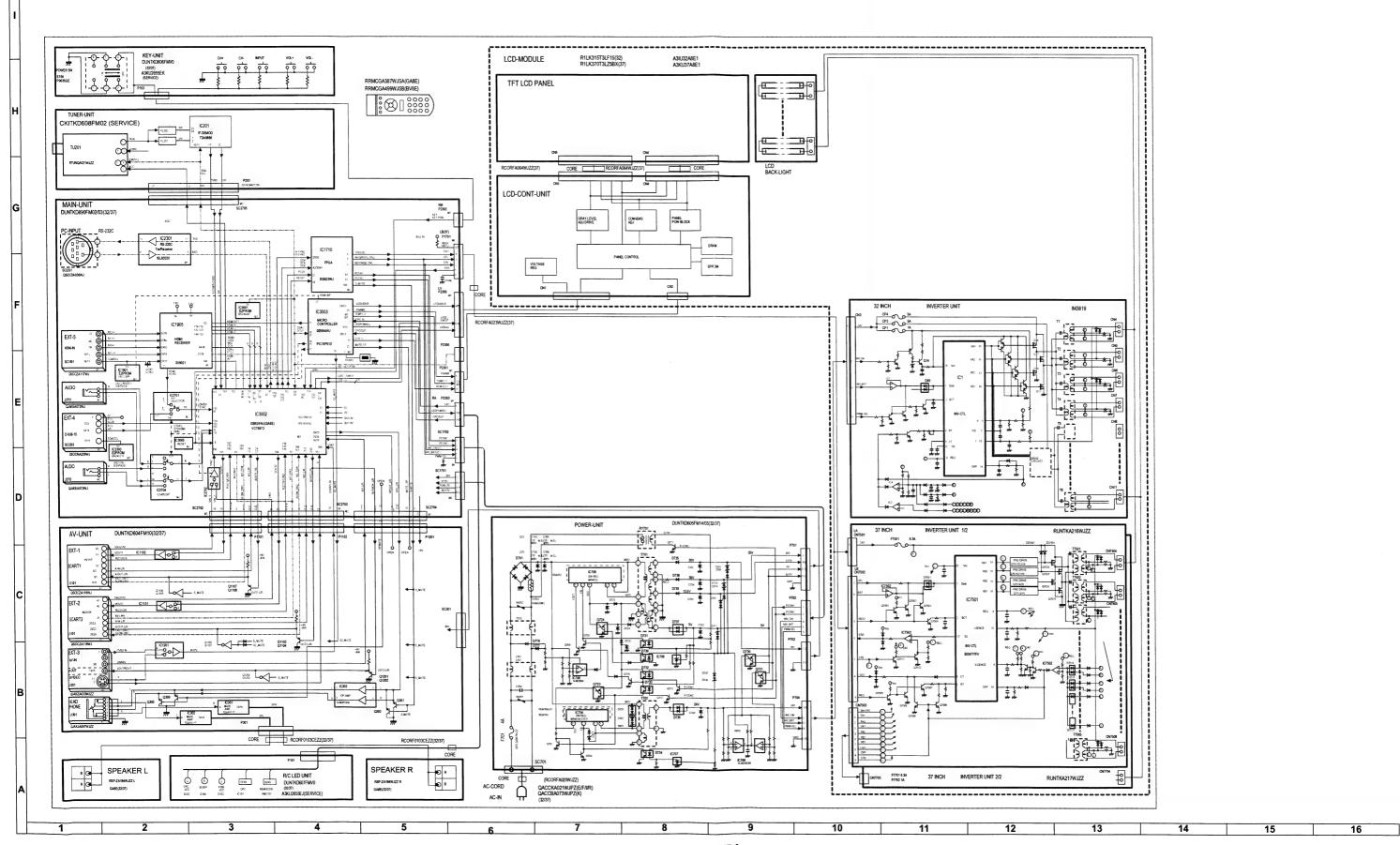
OVERALL WIRING DIAGRAM



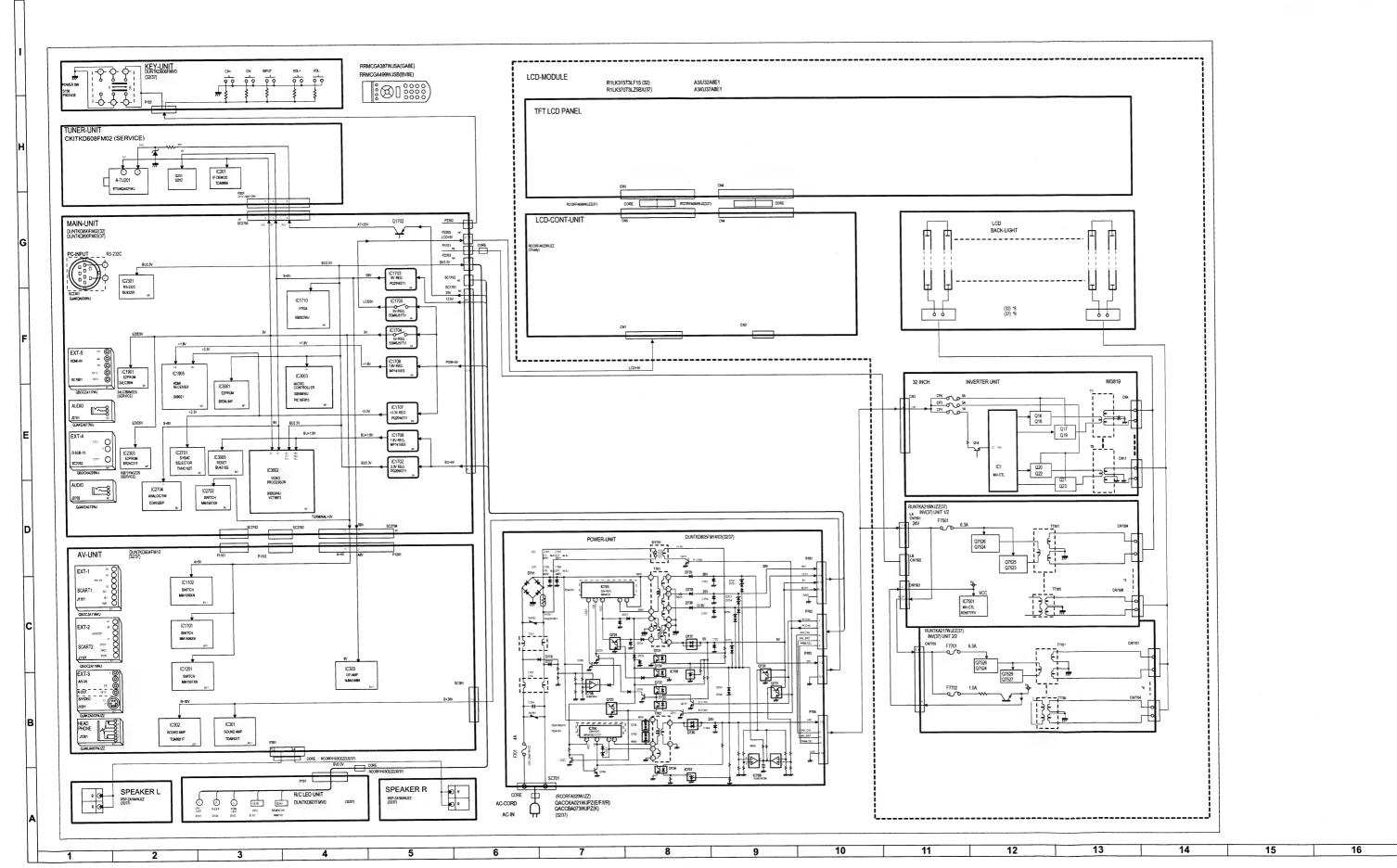


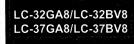
BLOCK DIAGRAM

System Block Diagram



Power-Source Block Diagram





SCHEMATIC DIAGRAMS

Description:

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 230V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

- 1. The unit of resistance " Ω " is omitted. (K= $k\Omega$ =1000 Ω , M=M Ω).
- 2. All resistors are \pm 5%, unless otherwise noted. (J= \pm 5%, F= \pm 1%, D= \pm 0.5%)
- 3. All resistors are 1/16W, unless otherwise noted.
- 4. All resistors are Carbon type, unless otherwise noted.
- ©: Solid

w: Cement

S: Oxide Film

T): Special

N: Metal Coating

CAPACITOR

- 1. All capacitors are μF , unless otherwise noted. (P=pF= $\mu \mu$ F).
- 2. All capacitors are 50V, unless otherwise noted.
- 3. All capacitors are Ceramic type, unless otherwise noted.

(ML): Mylar

(TA): Tantalum

(PF): Polypro Film

(ST): Styrol

CAUTION:

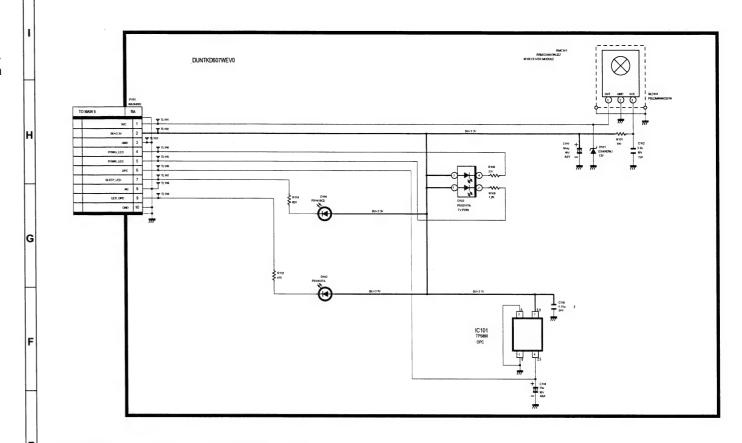
This circuit diagram is original one, therefore there may be a slight difference from yours.

IMPORTANT SAFETY NOTICE:

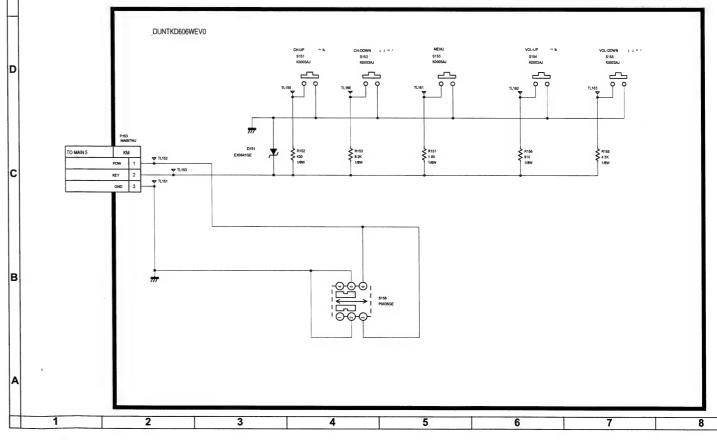
PARTS MARKED WITH " \(\Lambda\)" (

IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

LC-32/37GA8E RC/LED Unit Diagram

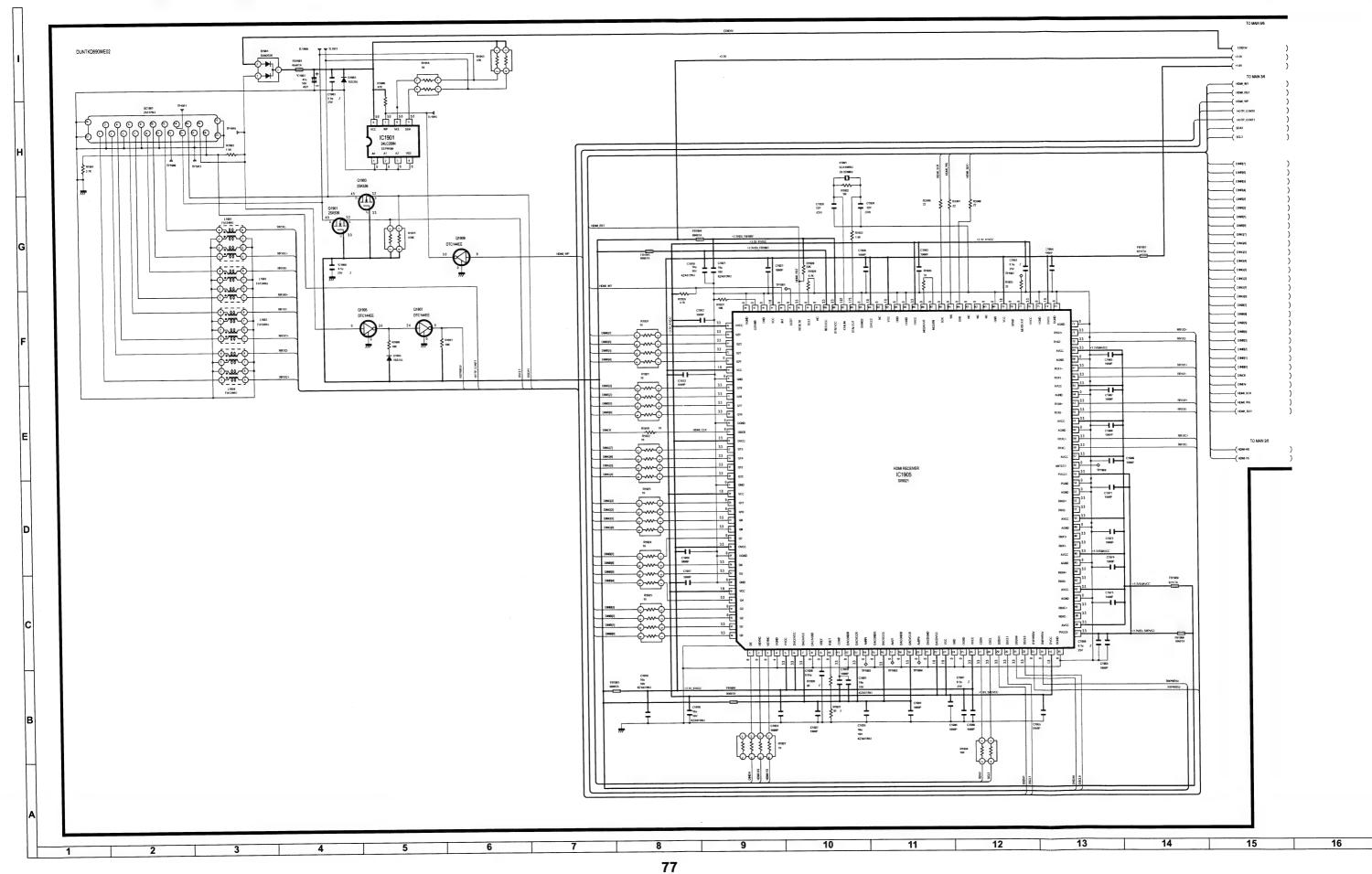


LC-32/37GA8E KEY Unit Diagram

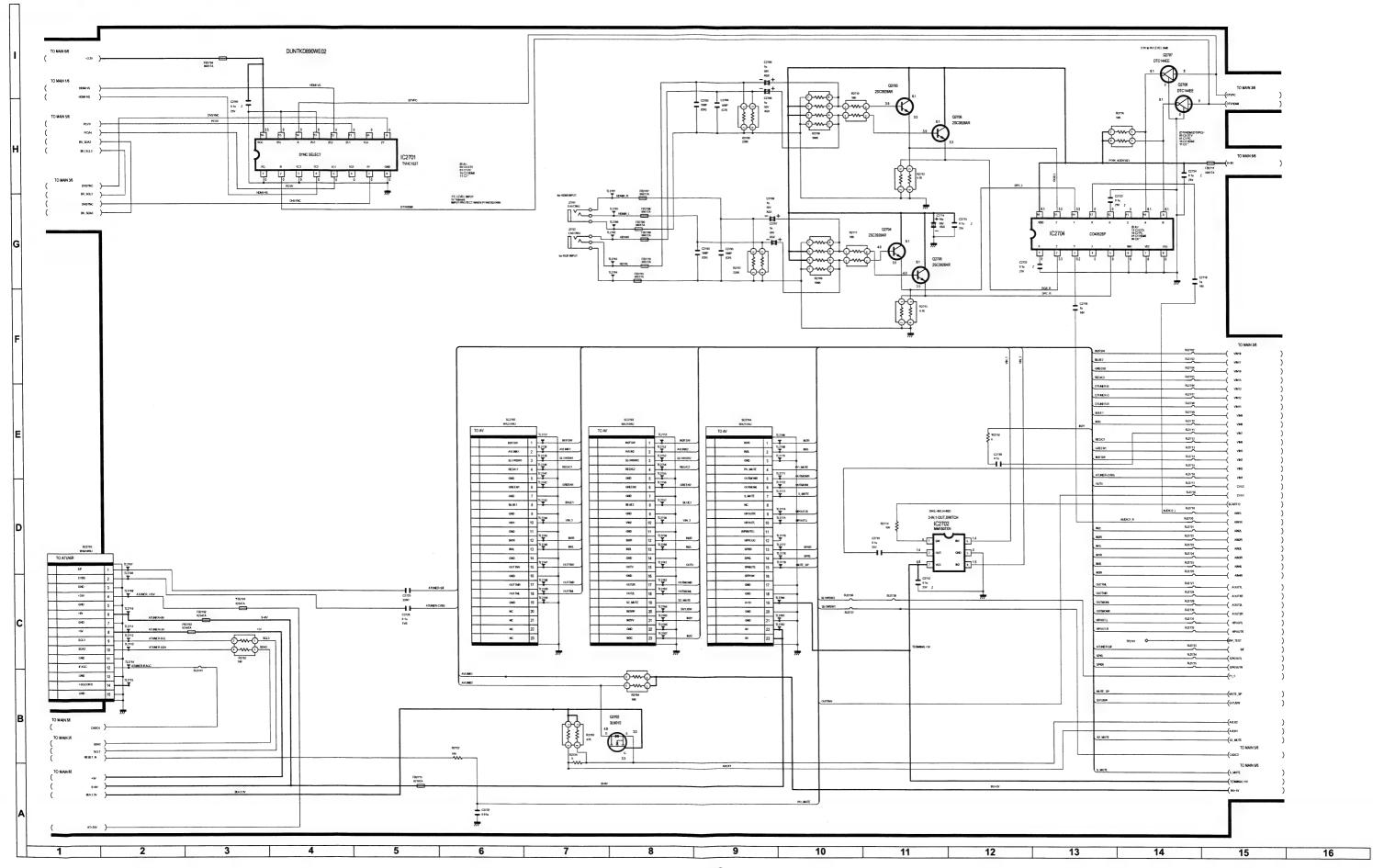


76

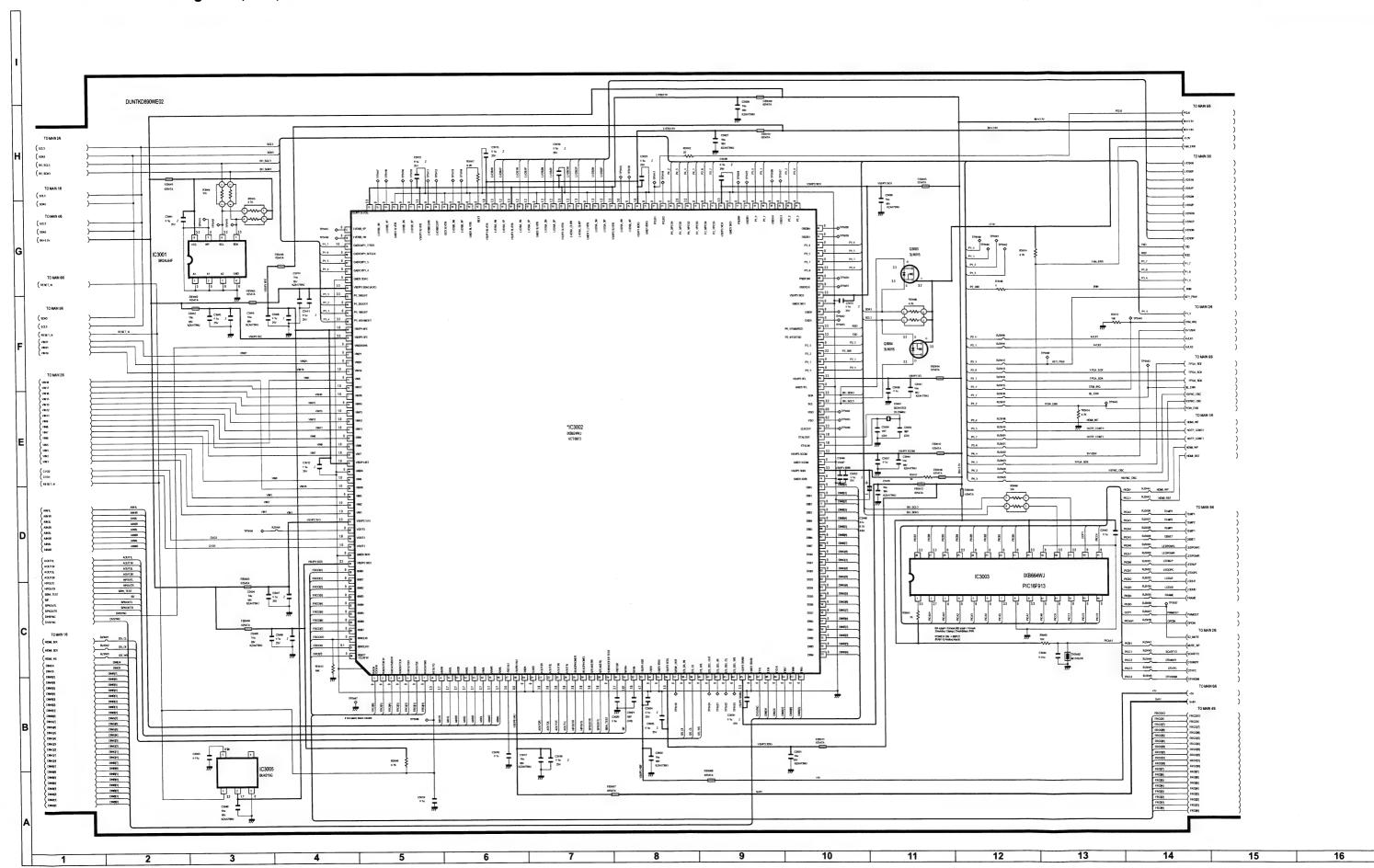
LC-32GA8E Main Unit Diagram (HDMI)



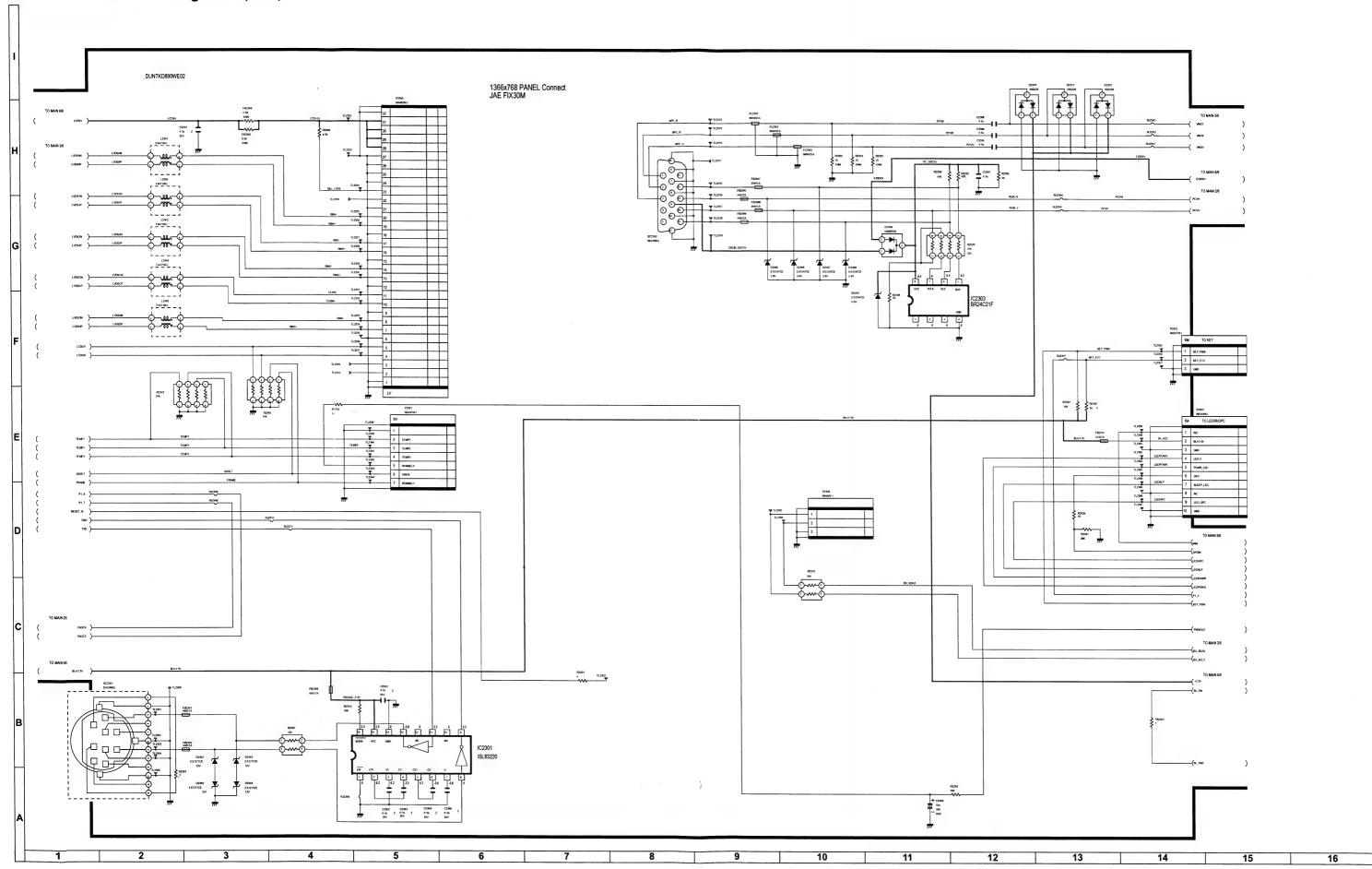
LC-32GA8E Main Unit Diagram (Signal INOUT)



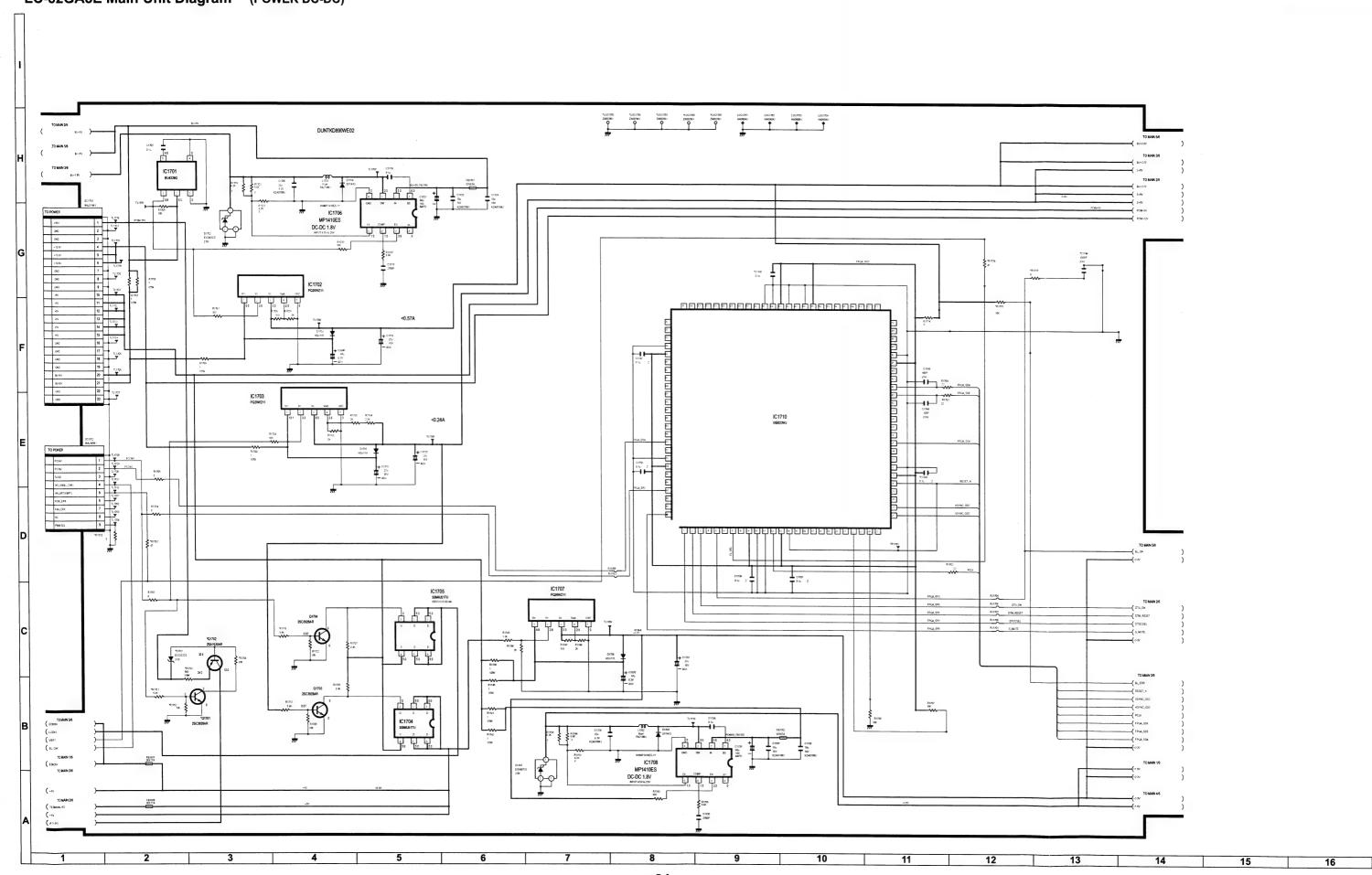
LC-32GA8E Main Unit Diagram (VCTP)



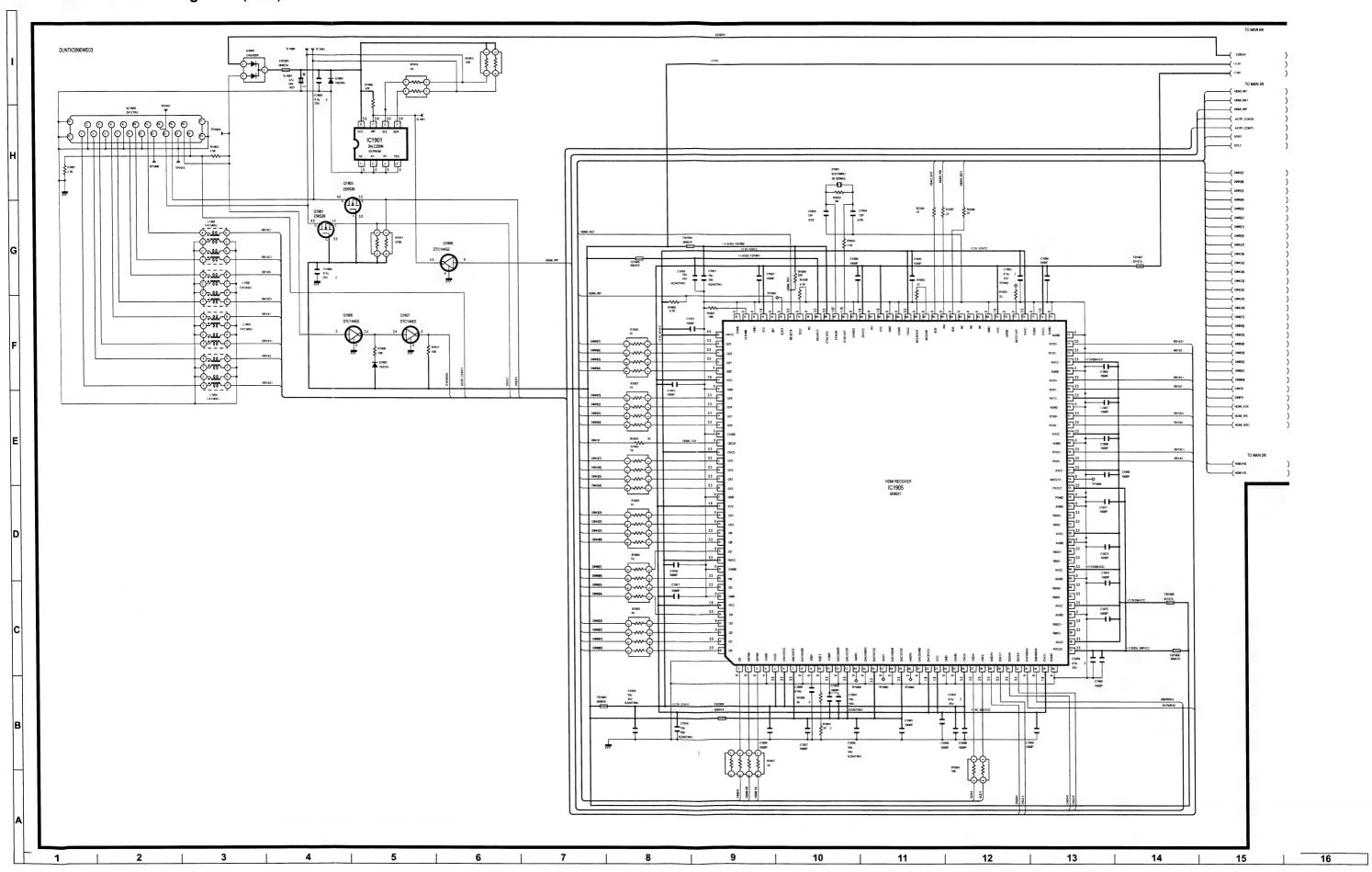
LC-32GA8E Main Unit Diagram (MISC)



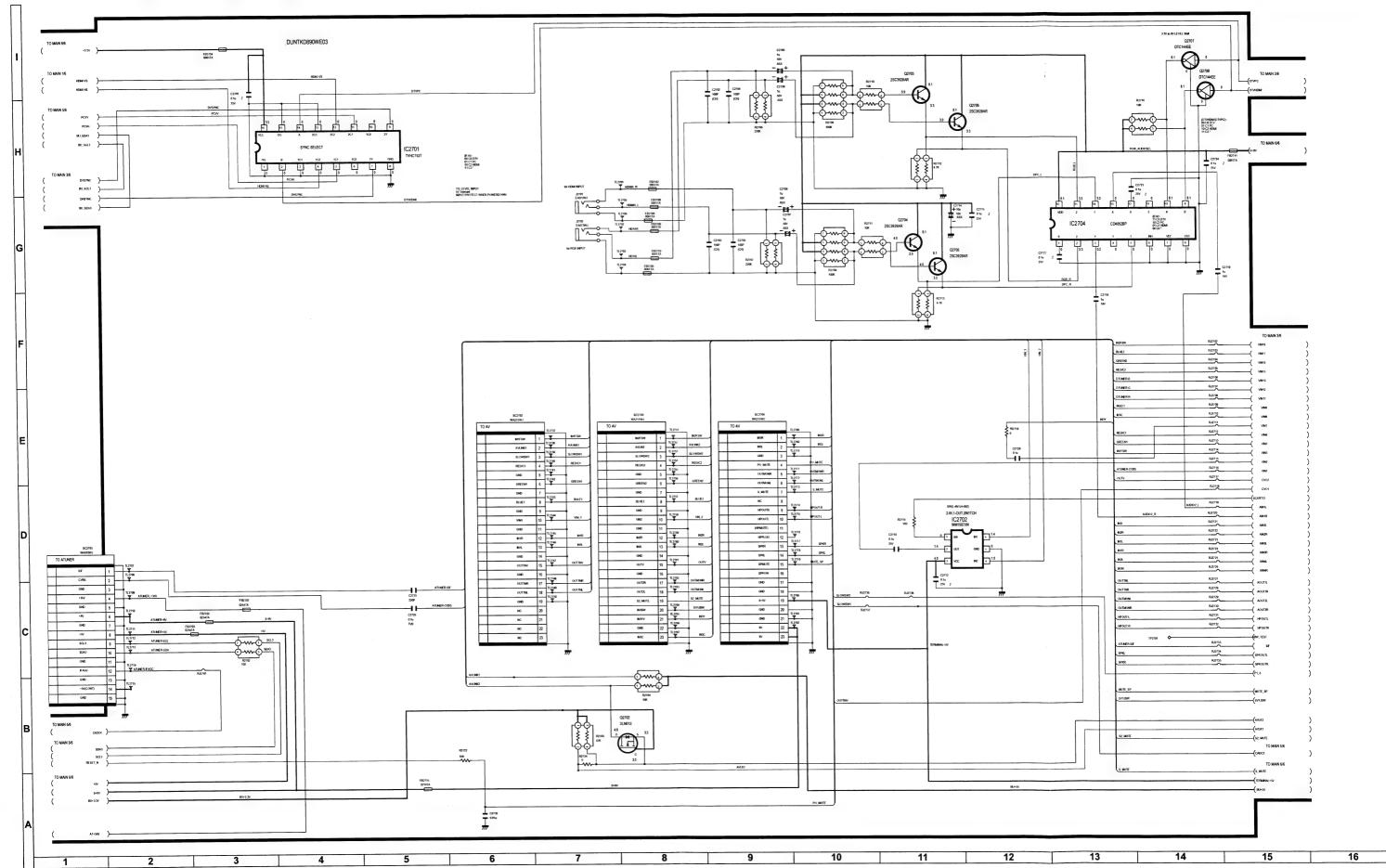
LC-32GA8E Main Unit Diagram (POWER DC-DC)



LC-37GA8E Main Unit Diagram (HDMI)

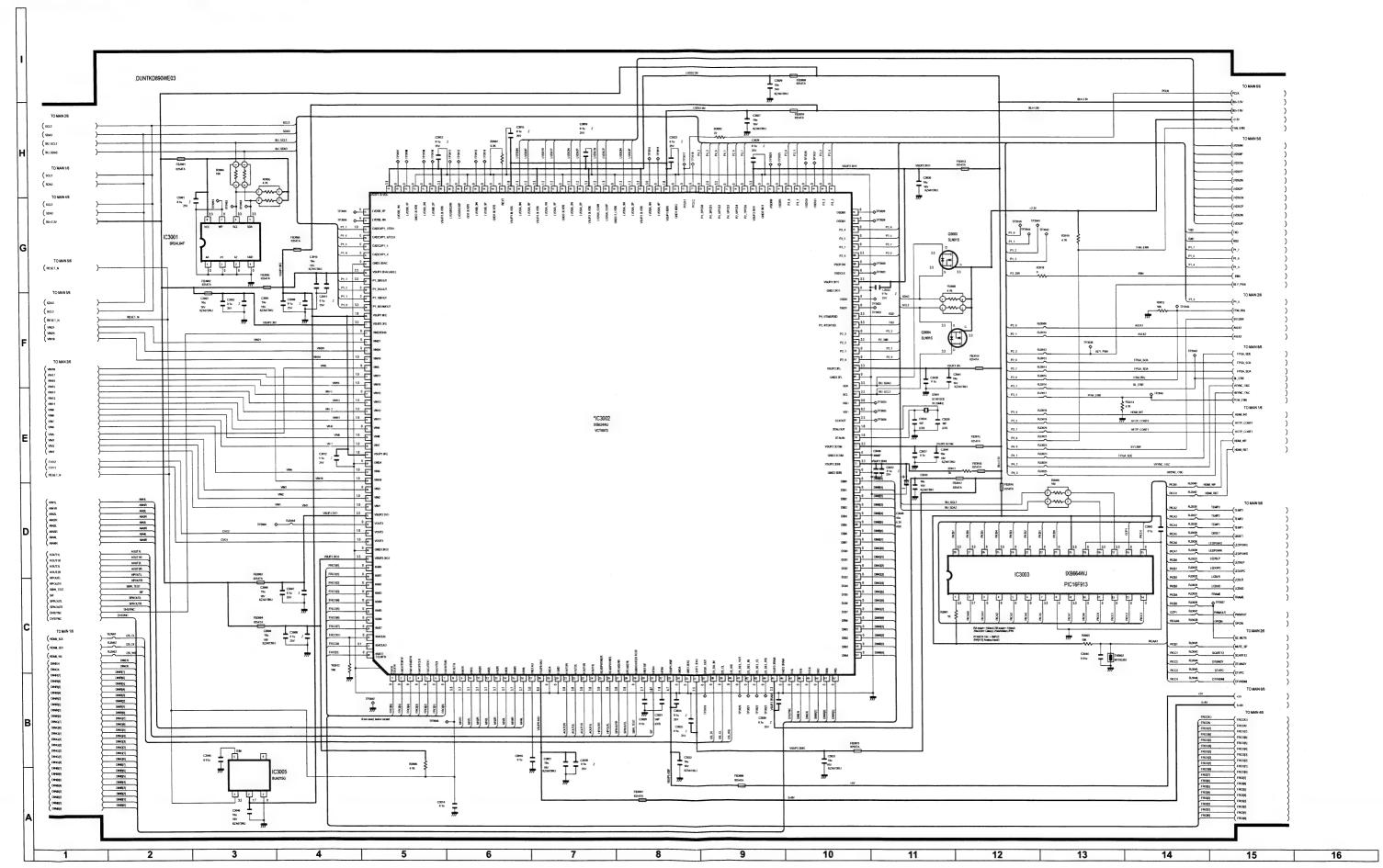


LC-37GA8E Main Unit Diagram (SIGNAL INOUT)

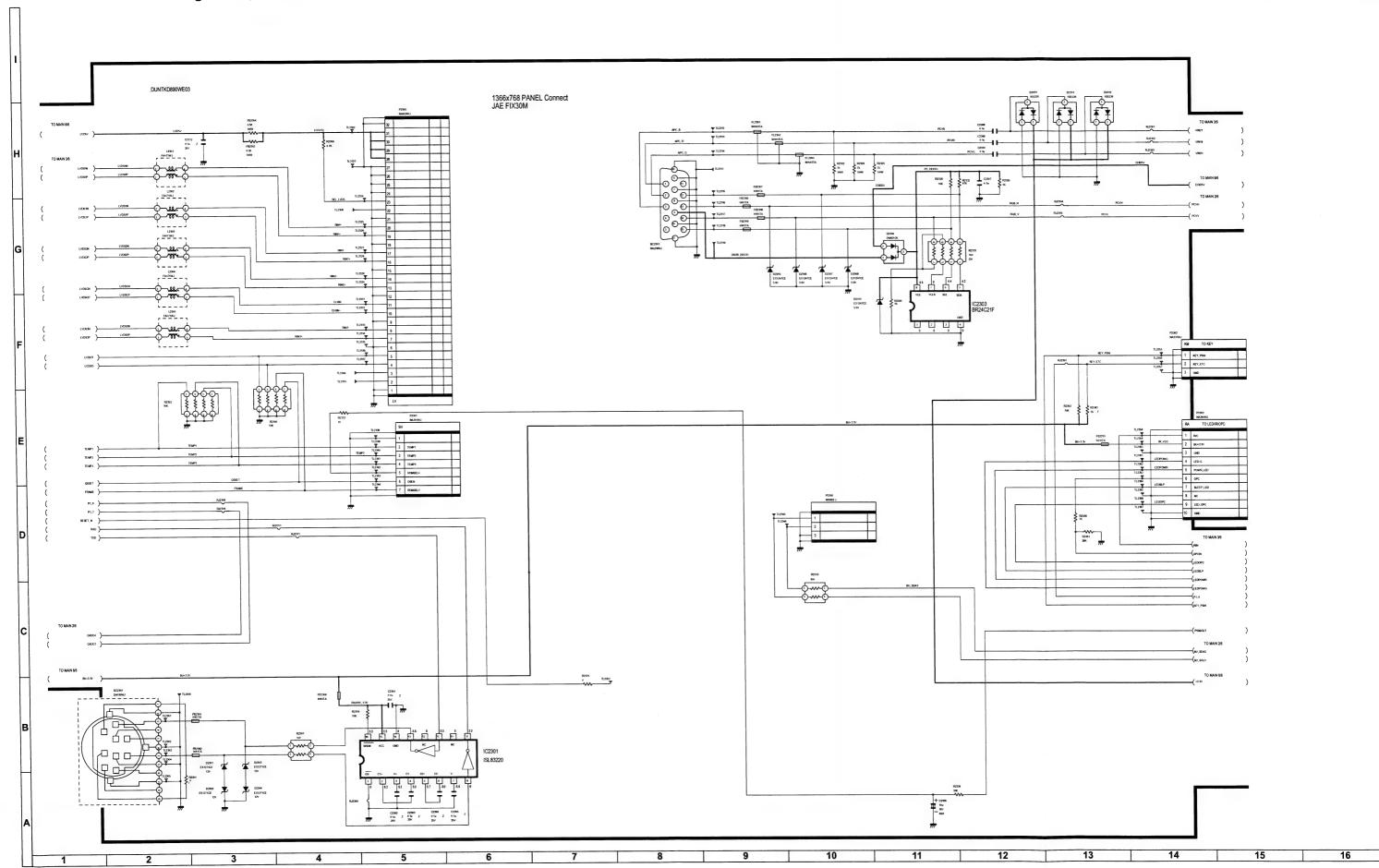




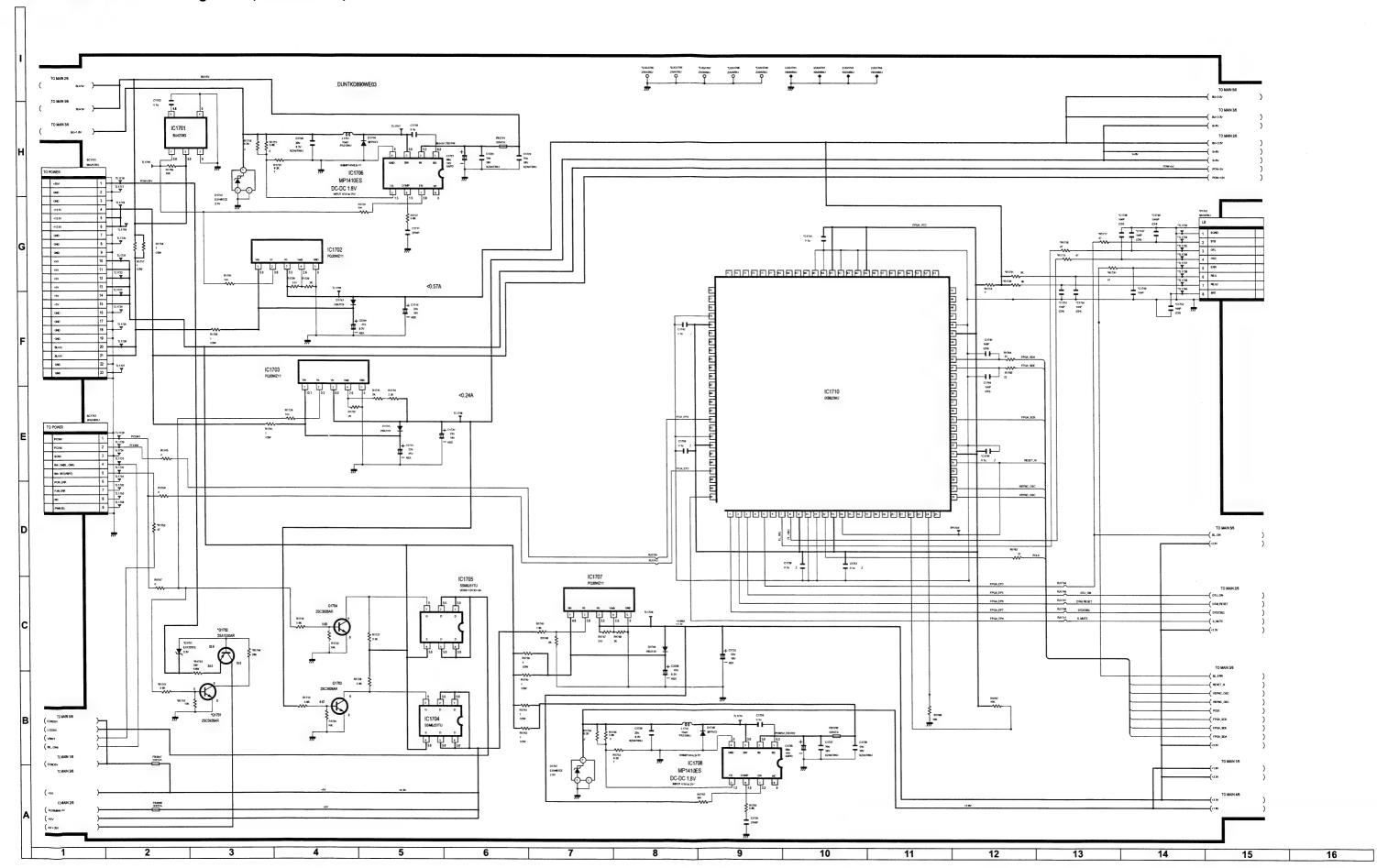
LC-37GA8E Main Unit Diagram (VCTP)



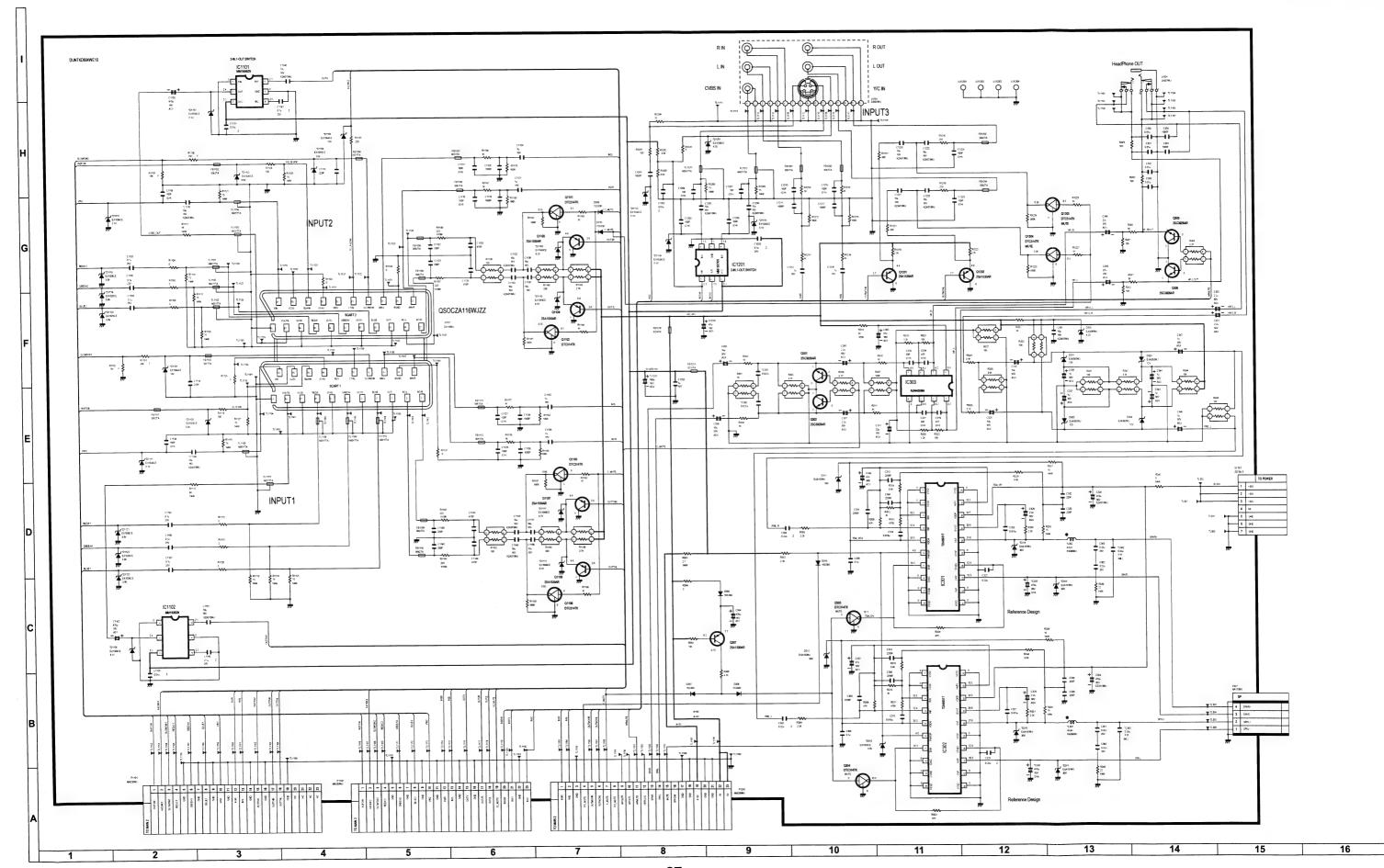
LC-37GA8E Main Unit Diagram (MISC)



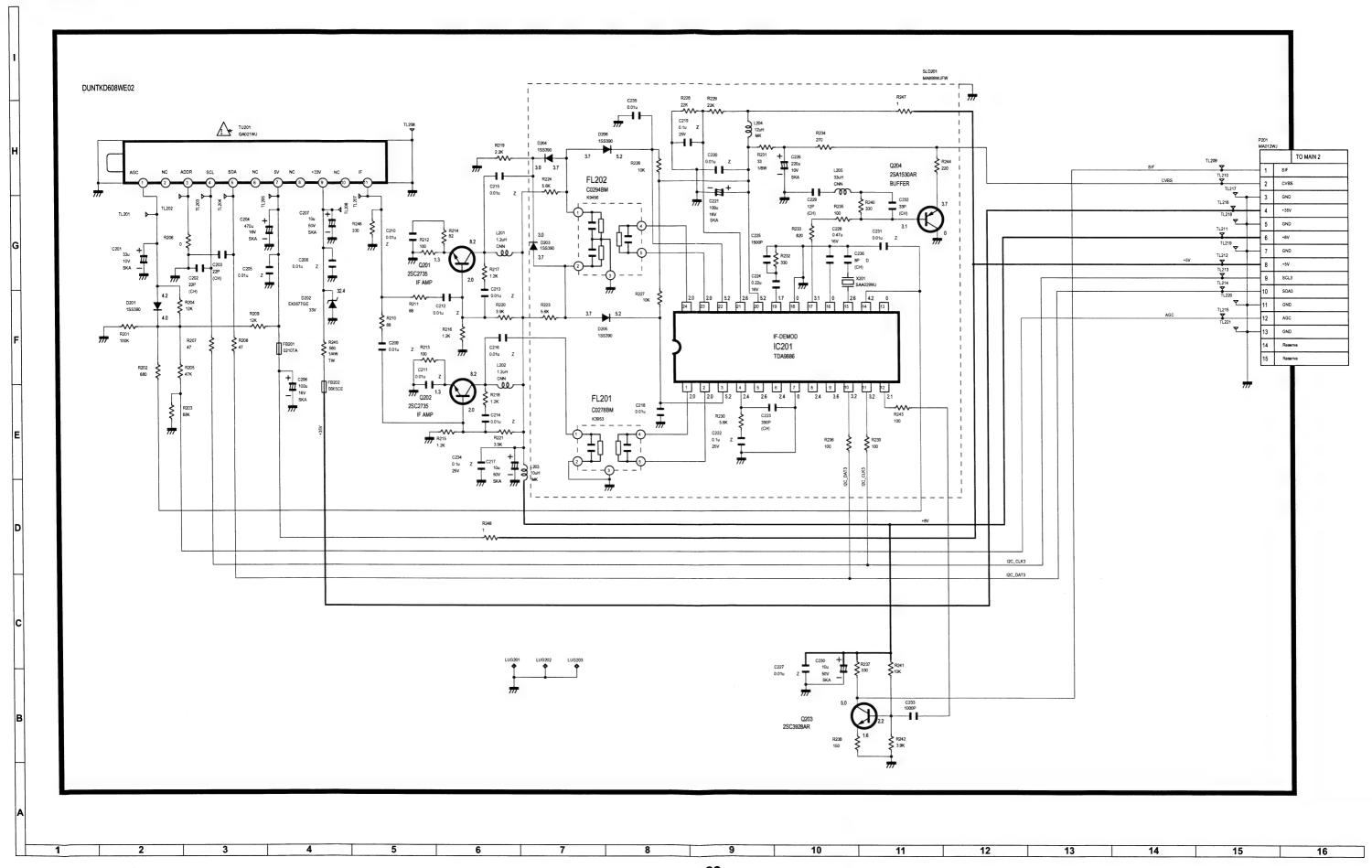
LC-37GA8E Main Unit Diagram (POWER DC-DC)



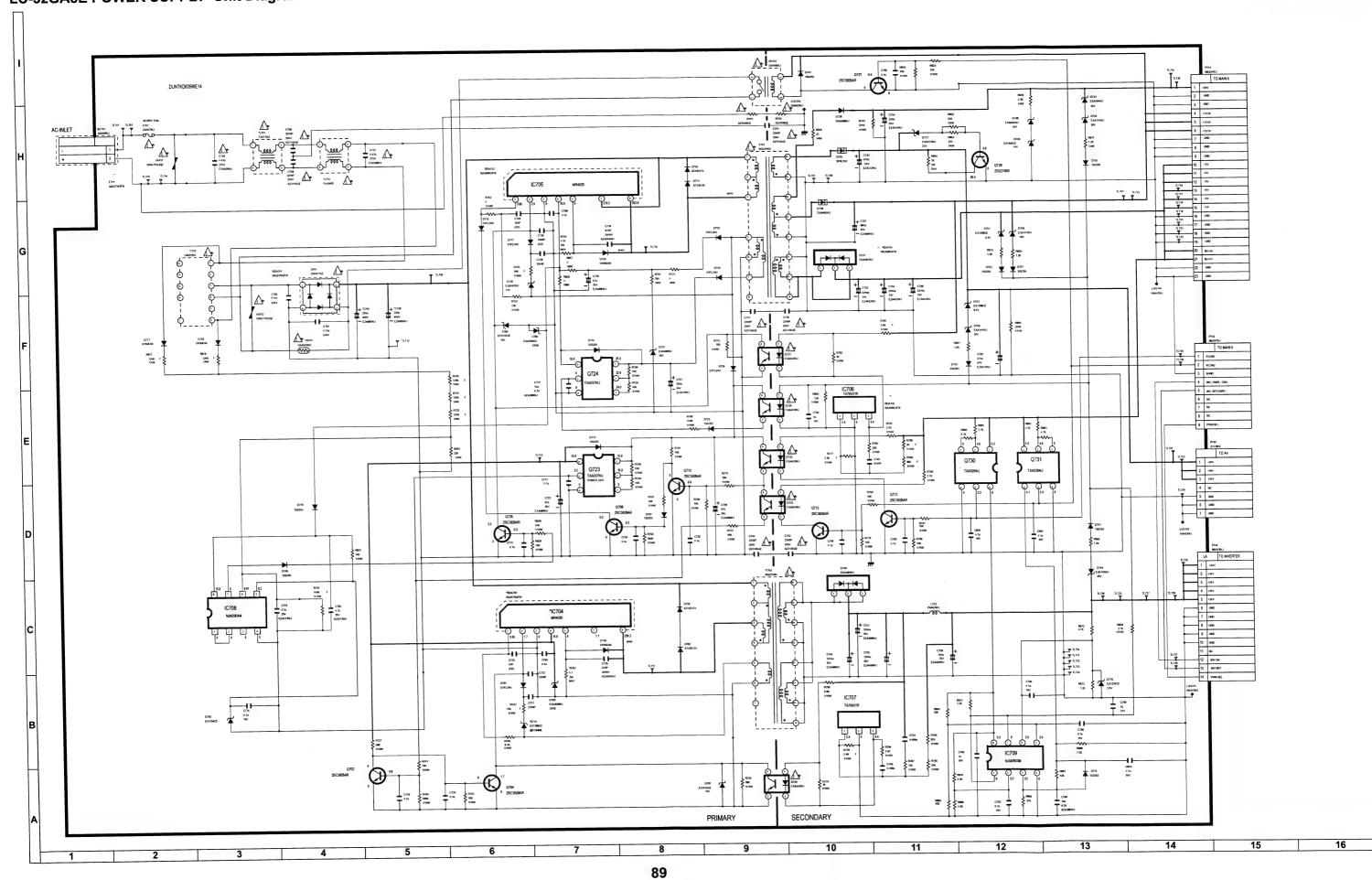
LC-32/37GA8E AV Unit Diagram

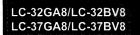


LC-32/37GA8E TUNER Unit Diagram

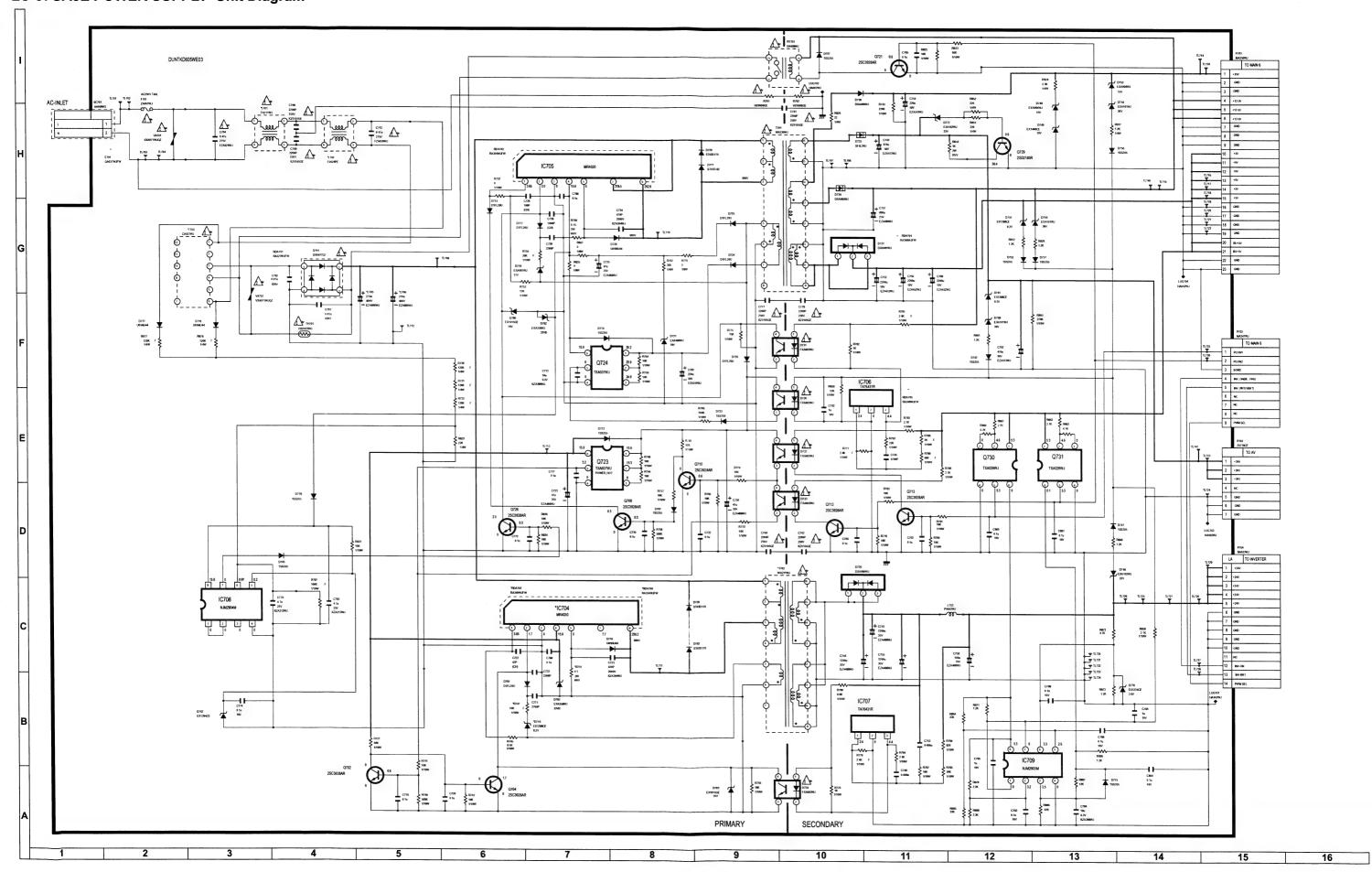


LC-32GA8E POWER SUPPLY Unit Diagram

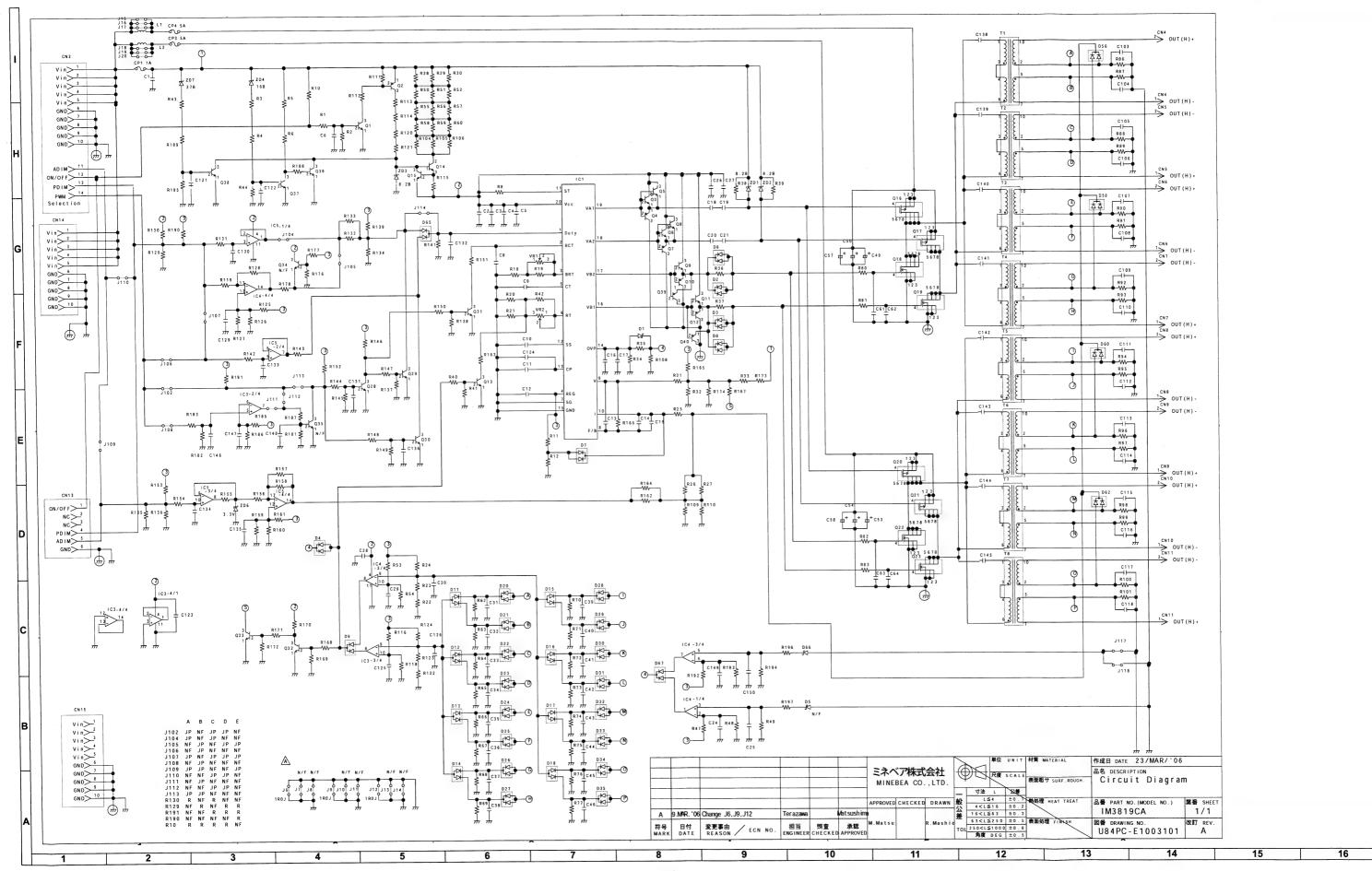




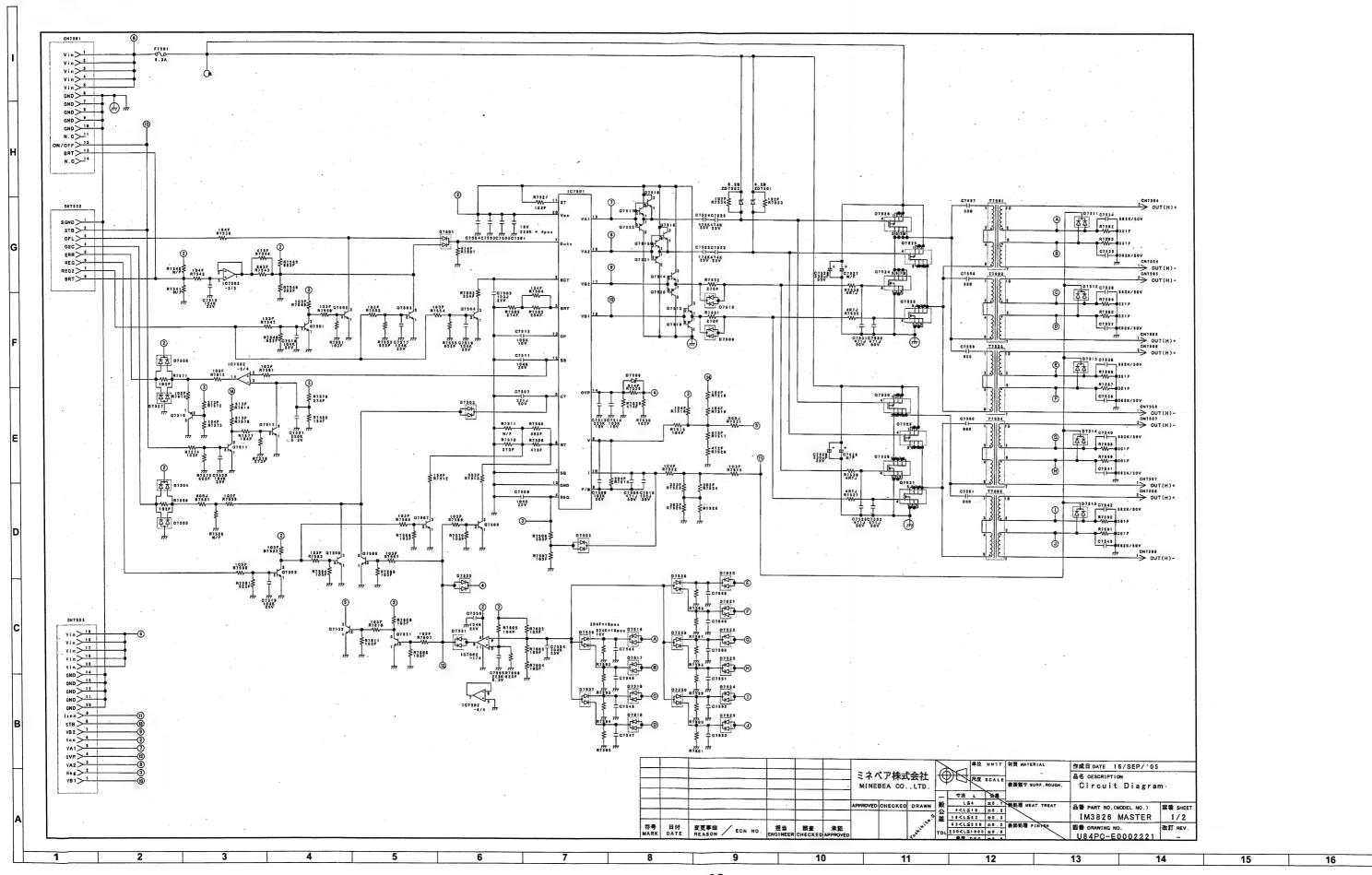
LC-37GA8E POWER SUPPLY Unit Diagram



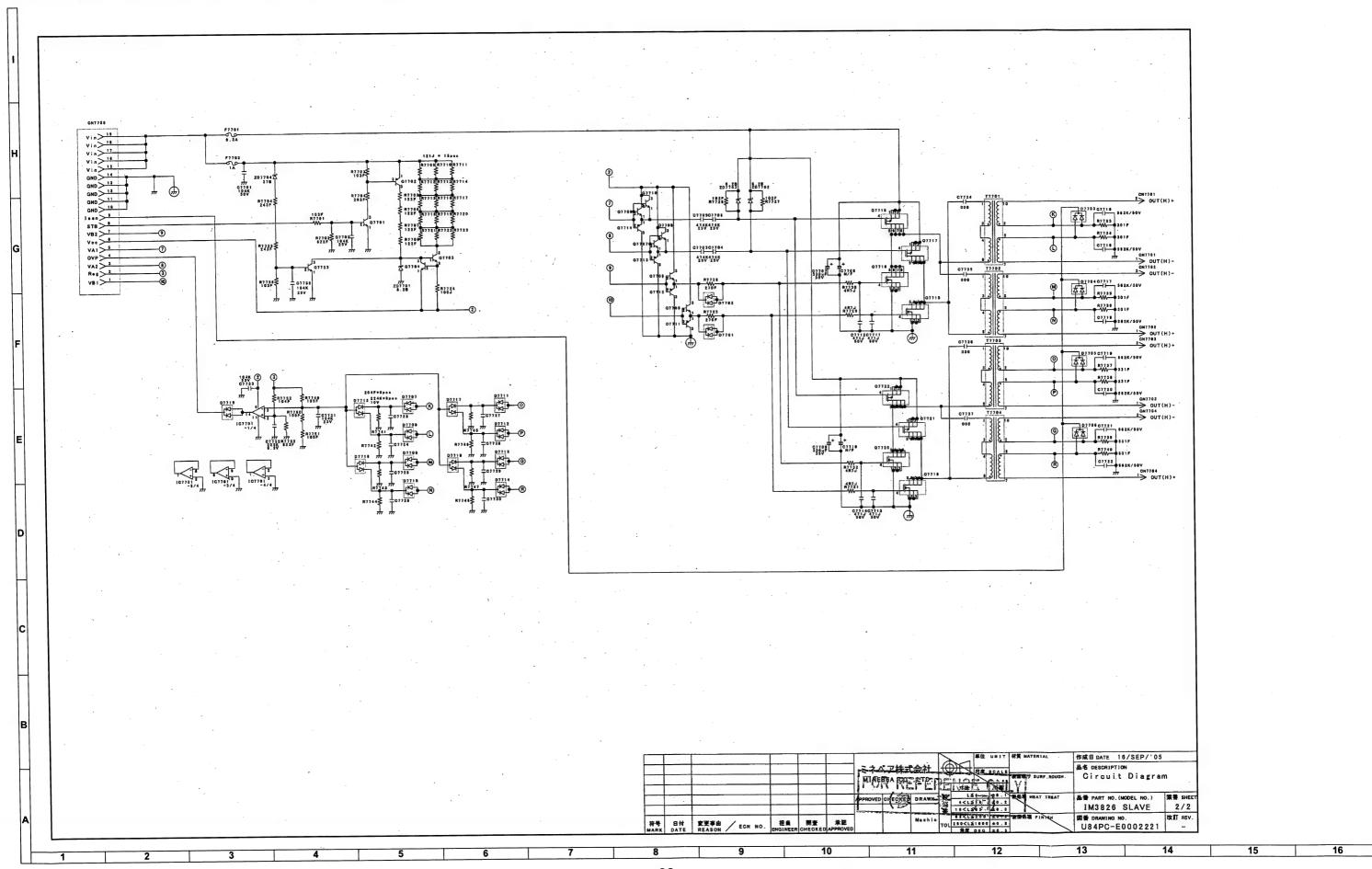
LC-32GA8E INVERTER Unit Diagram (RDENC2266TPZC)



LC-37GA8E INVERTER Unit Diagram (RUNTKA216WJZZ)

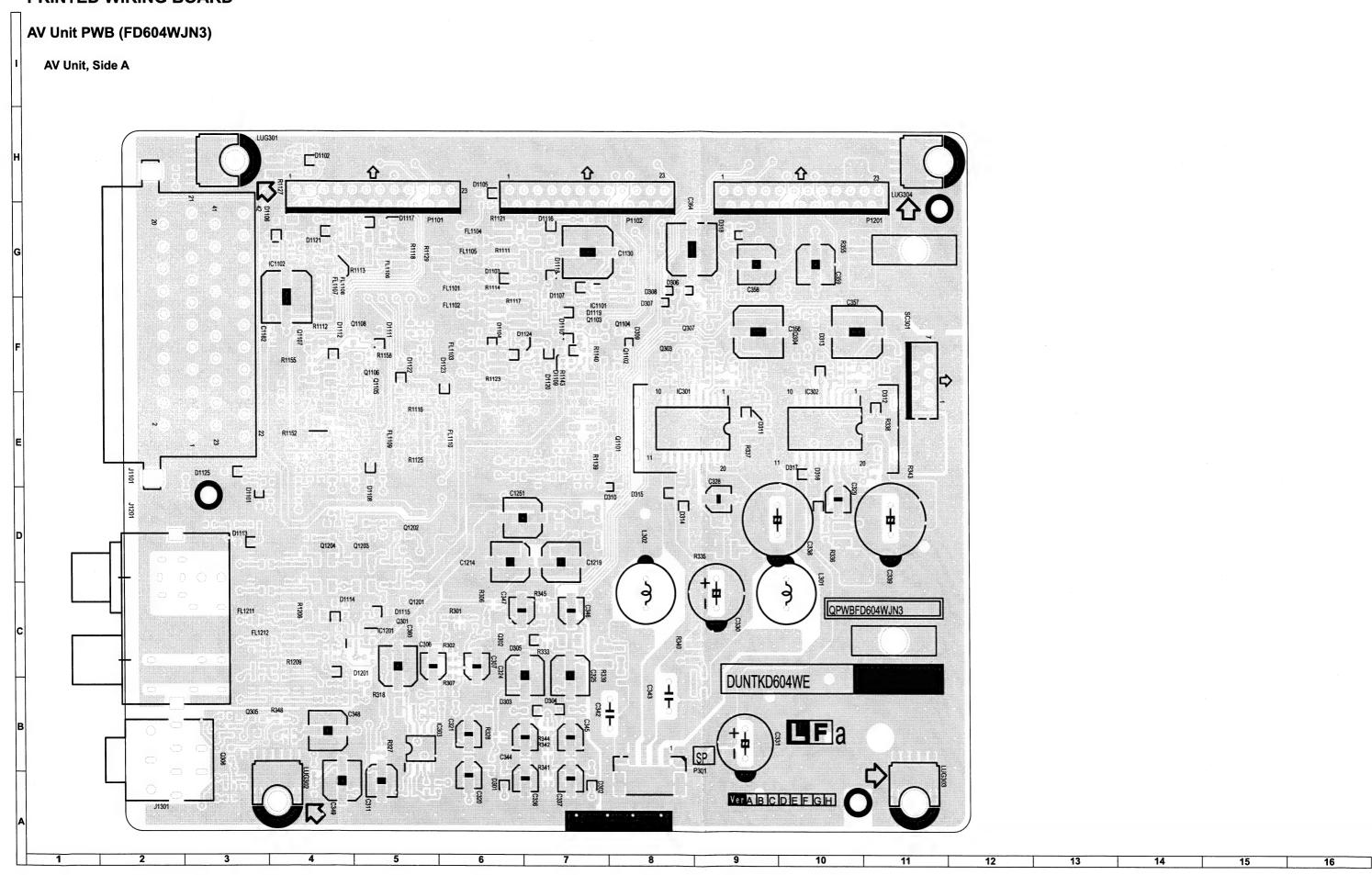


LC-37GA8E INVERTER Unit Diagram (RUNTKA217WJZZ)

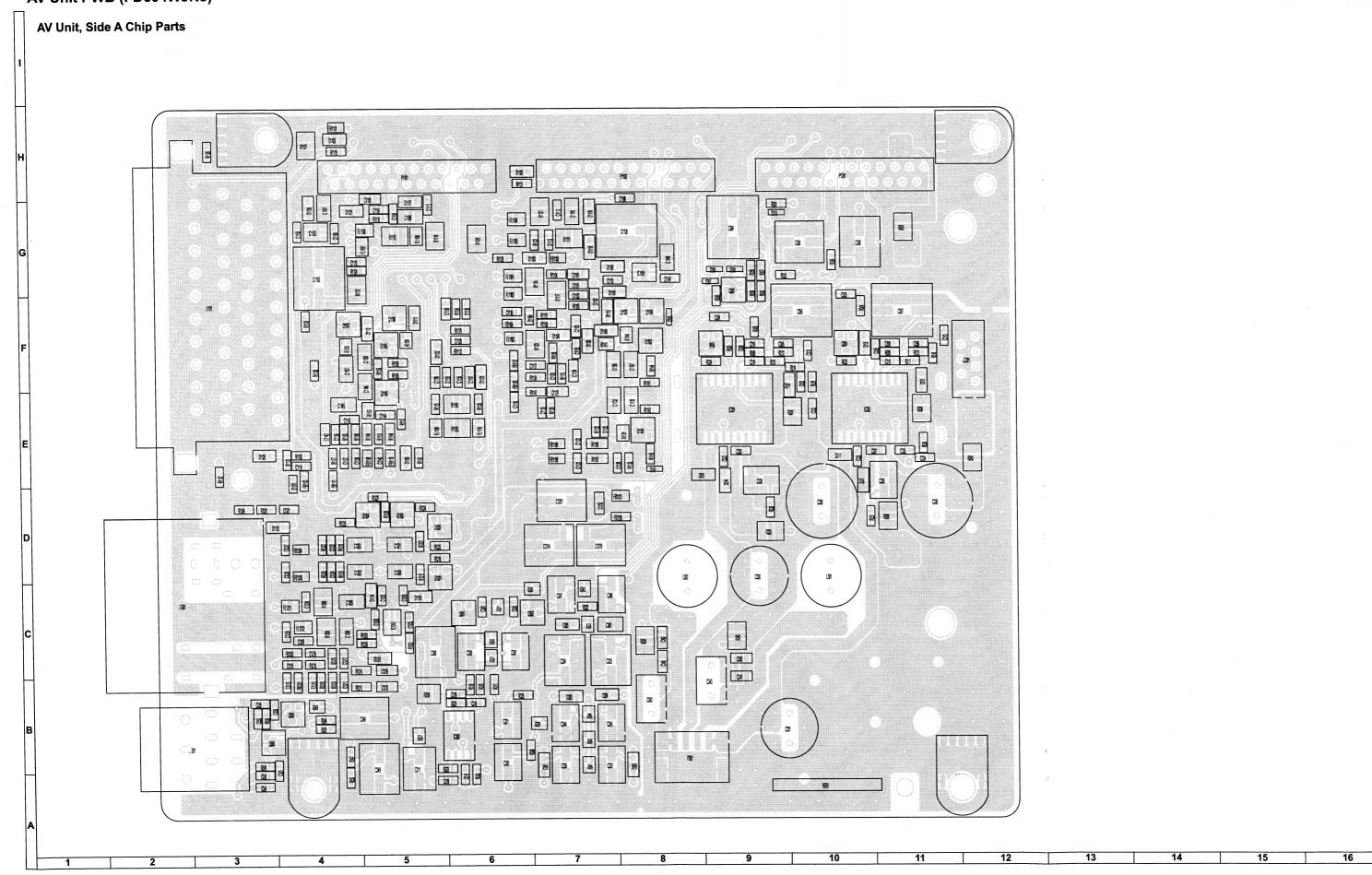




PRINTED WIRING BOARD

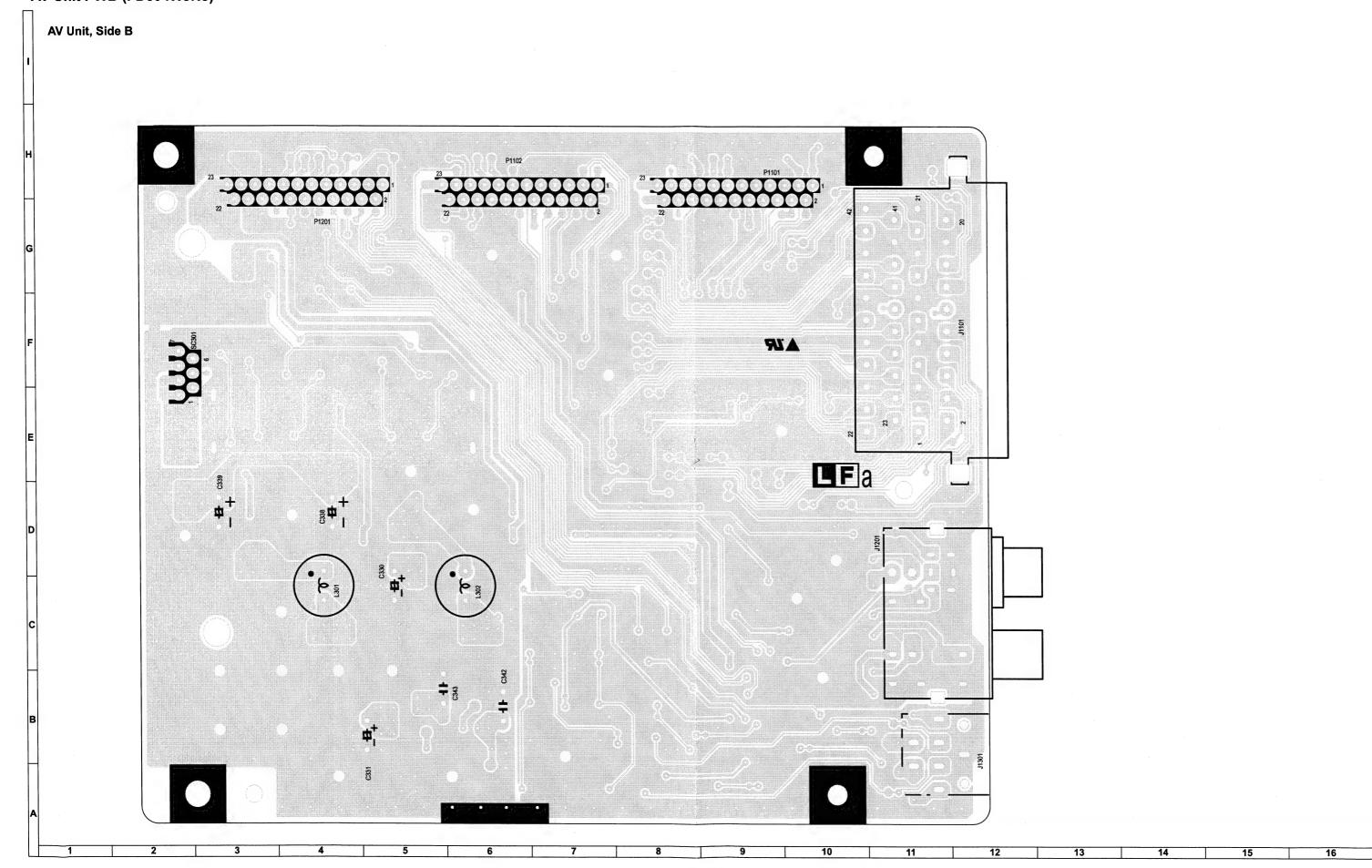


AV Unit PWB (FD604WJN3)

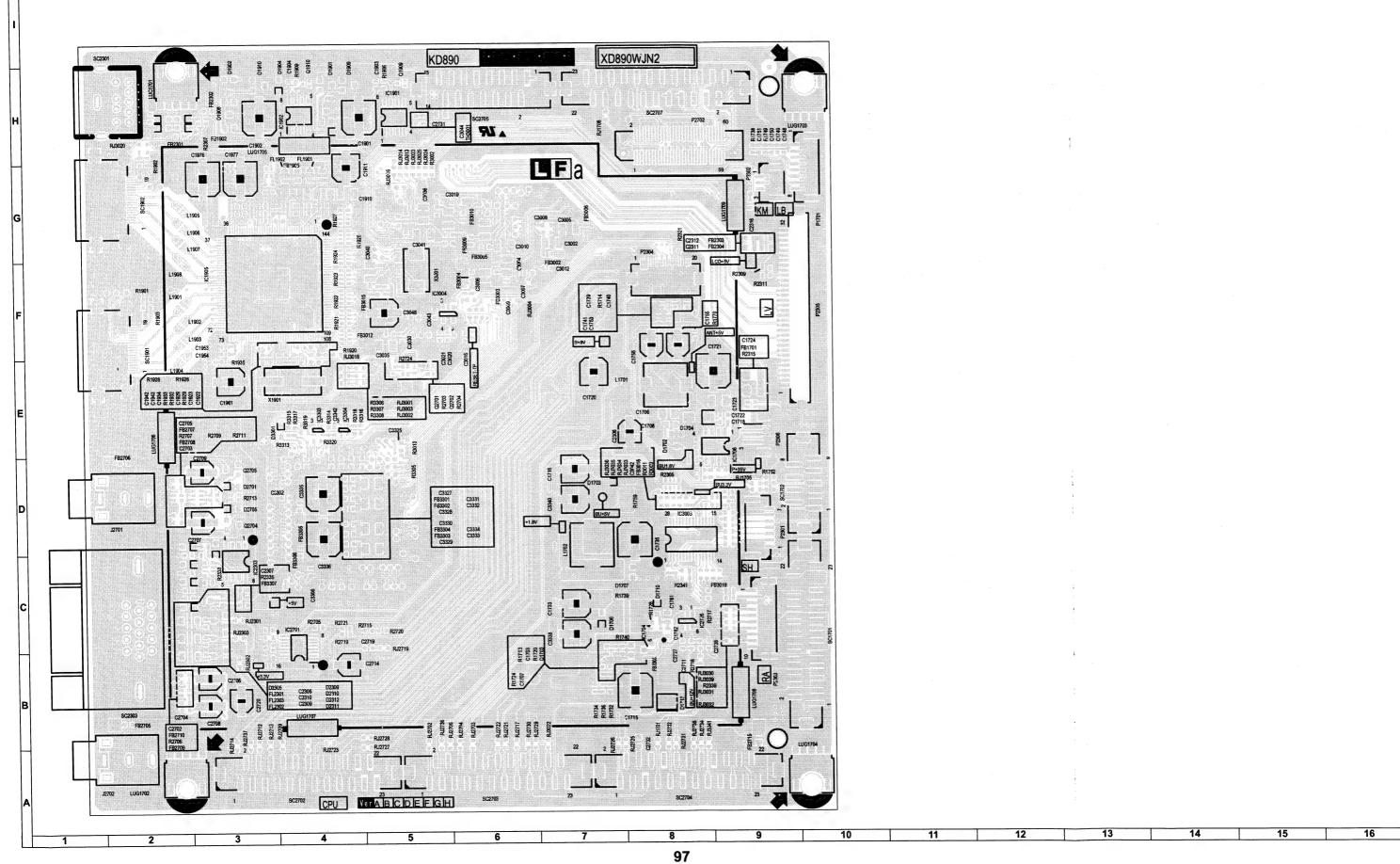


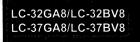


AV Unit PWB (FD604WJN3)

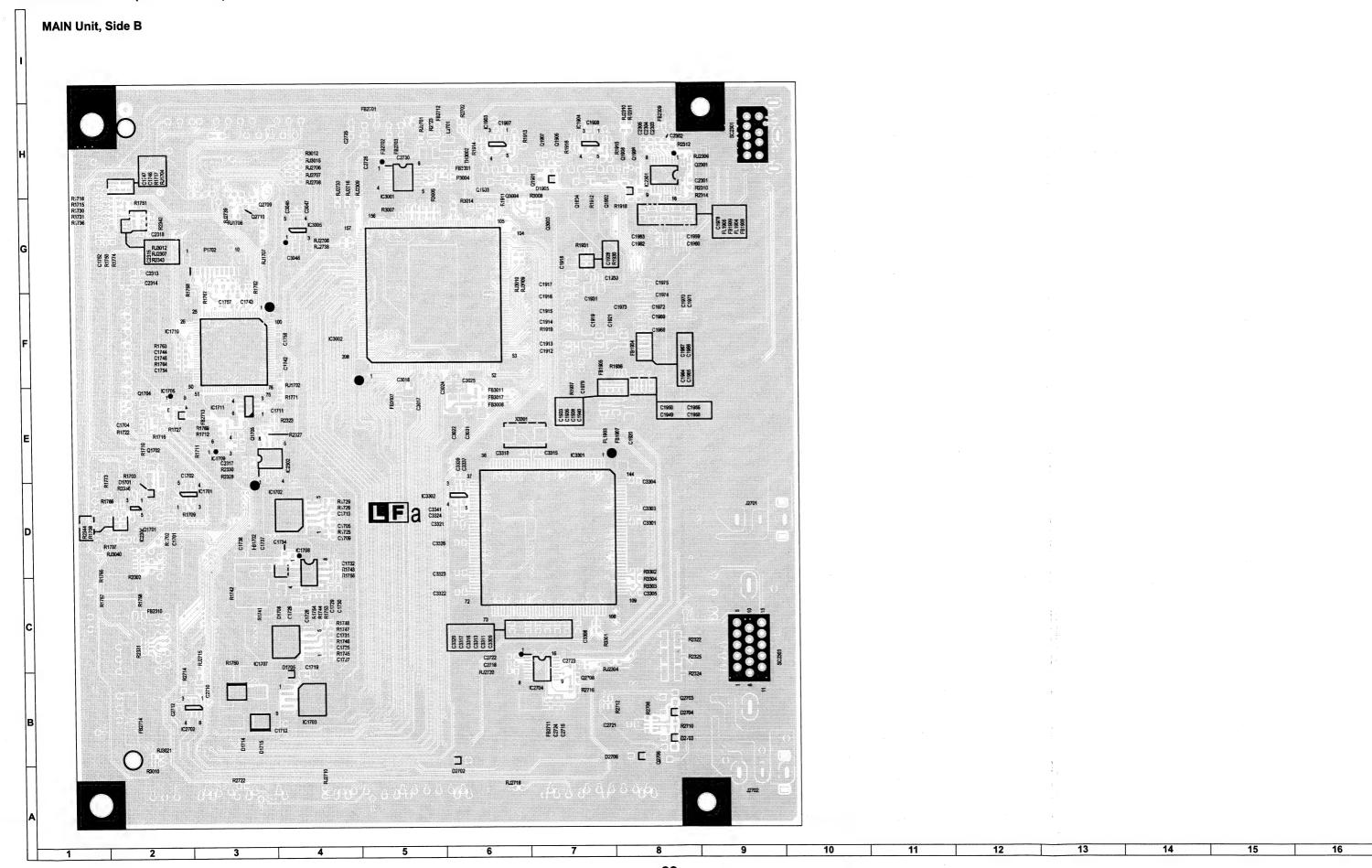


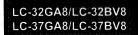
MAIN Unit, Side A



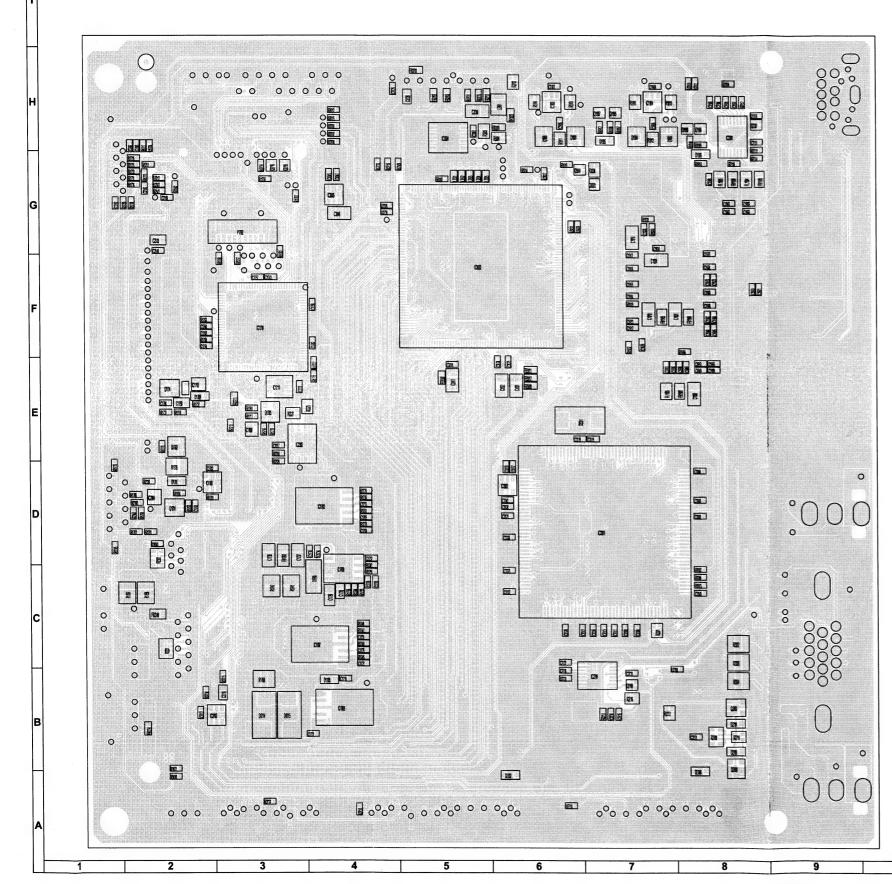


MAIN Unit, Side A Chip Parts 000 00 0000 000 925 ** 100 HOR | BH O | 81





MAIN Unit, Side B Chip Parts

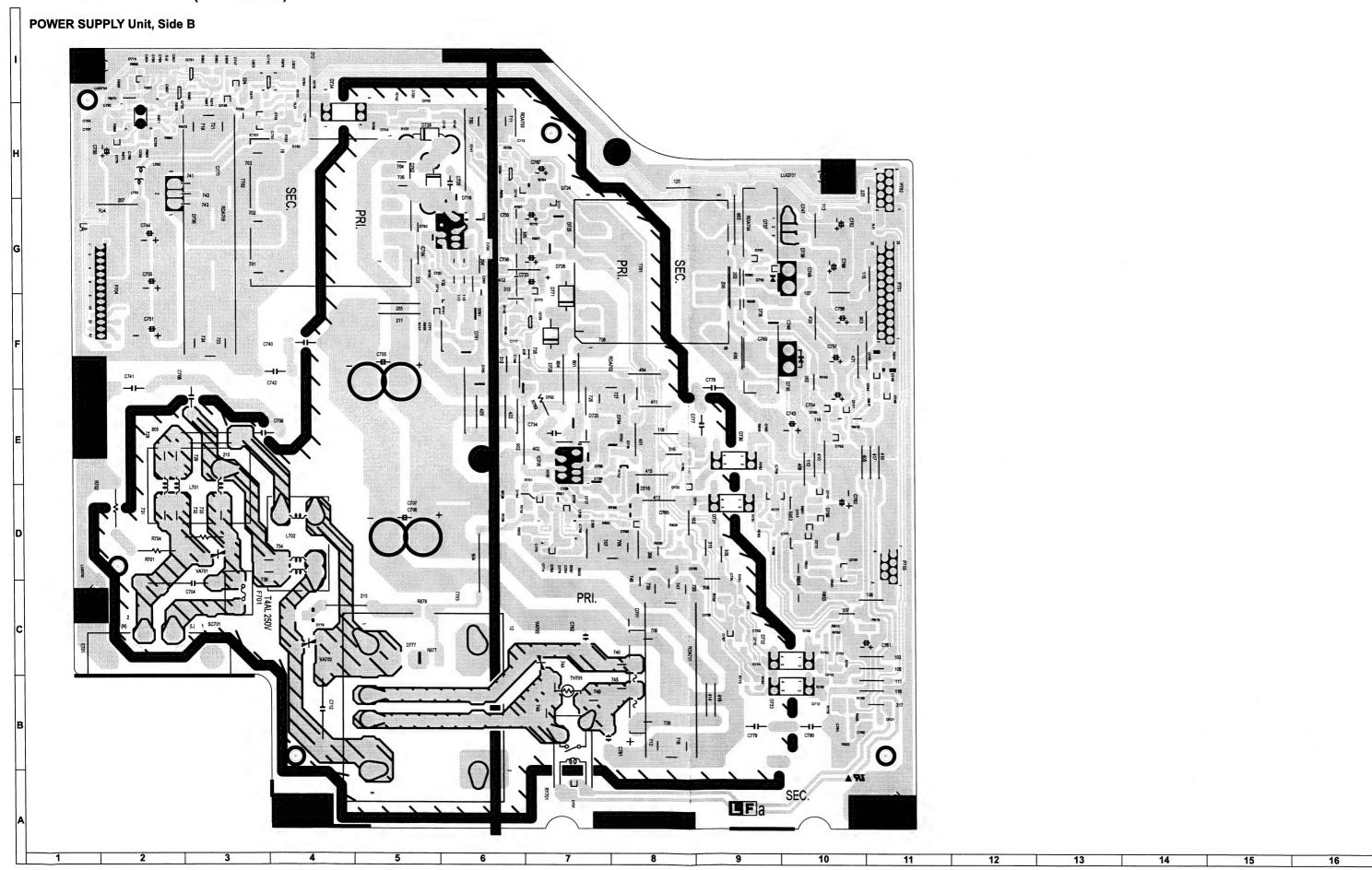


POWER SUPPLY Unit PWB (SD605WJN5)

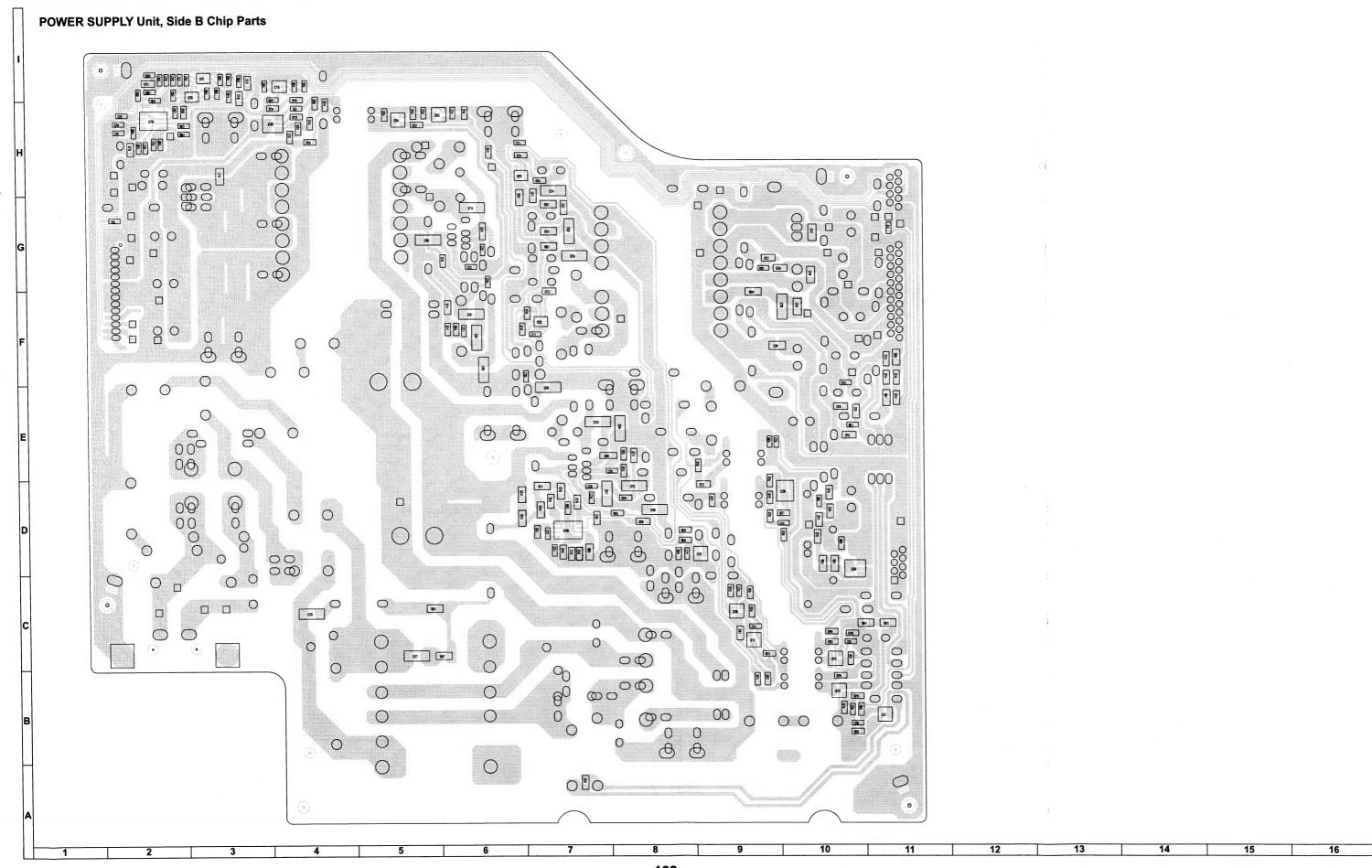
POWER SUPPLY Unit, Side A Veralbicide Figh SEC. 16



POWER SUPPLY Unit PWB (SD605WJN5)



POWER SUPPLY Unit PWB (SD605WJN3)



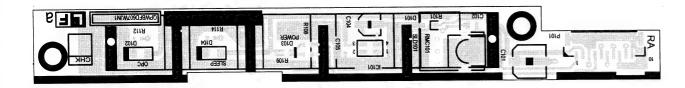


TUNER Unit PWB (FD608WJN3)

TUNER Unit, Side A **TUNER Unit, Side B TUNER Unit, Side B Chip Parts** 0000

RC / LED Unit PWB (FD607WJN1)

RC/LED Unit, Side A

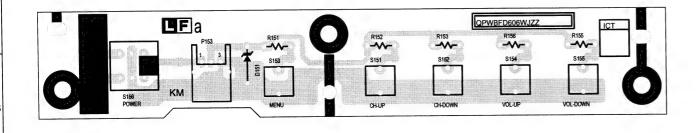


RC/LED Unit, Side B

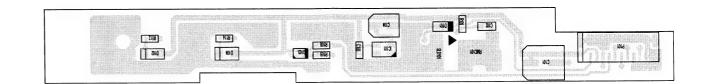


KEY Unit PWB (FD606WJZZ)

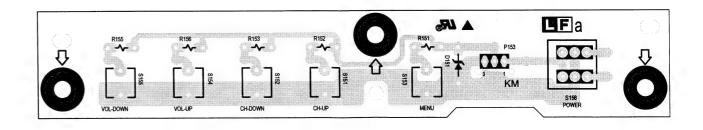
KEY Unit, Side A

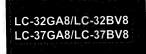


RC / LED Unit, Side A Chip Parts



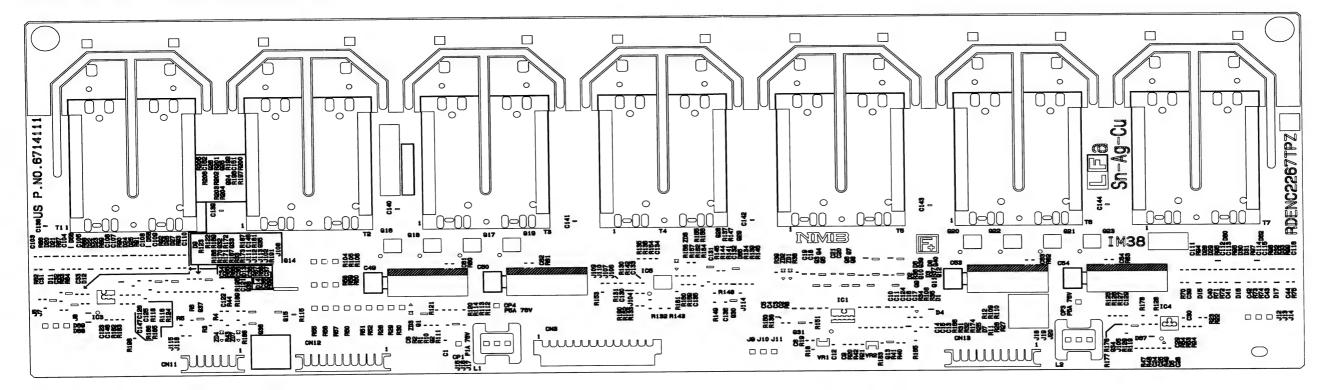
KEY Unit, Side B



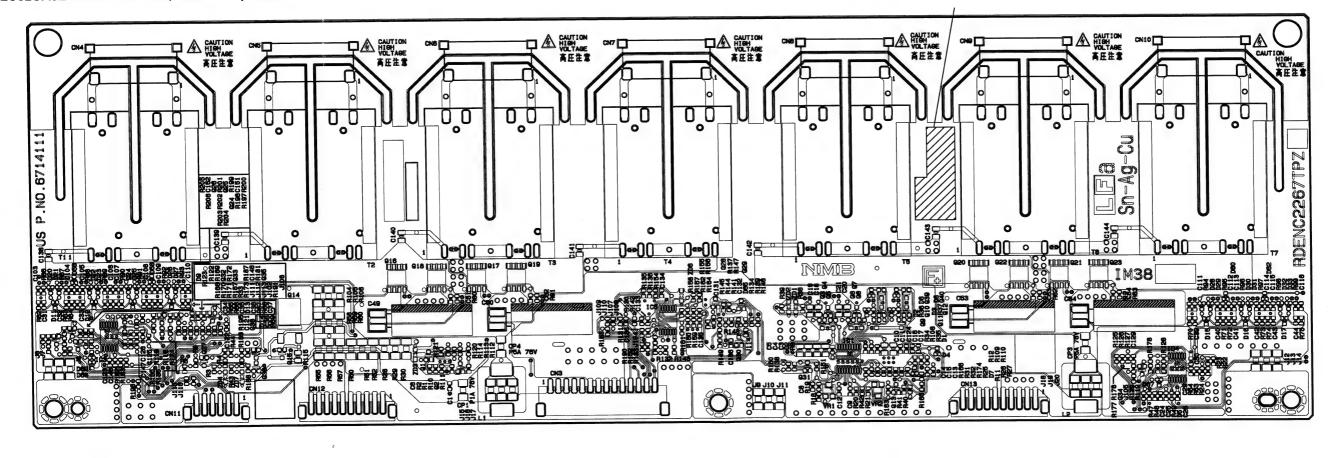


INVERTER Unit PWB

LC32GA8E INVERTER Unit, Side A (RDENC2266TPZC)



LC32GA8E INVERTER Unit, Side A Chip Parts

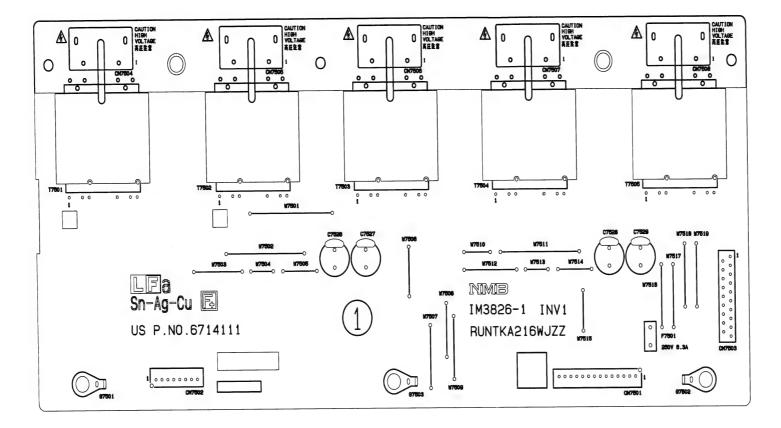


14

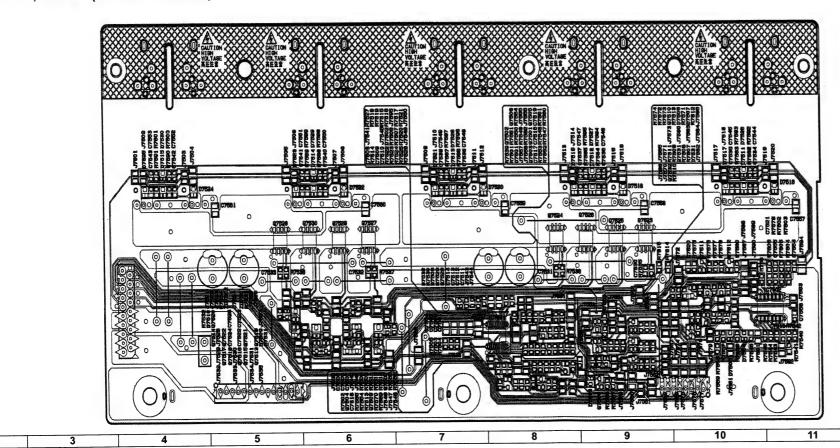
15

INVERTER Unit PWB (Continued)

LC37GA8E INVERTER Unit, Side A (RUNTKA216WJZZ)

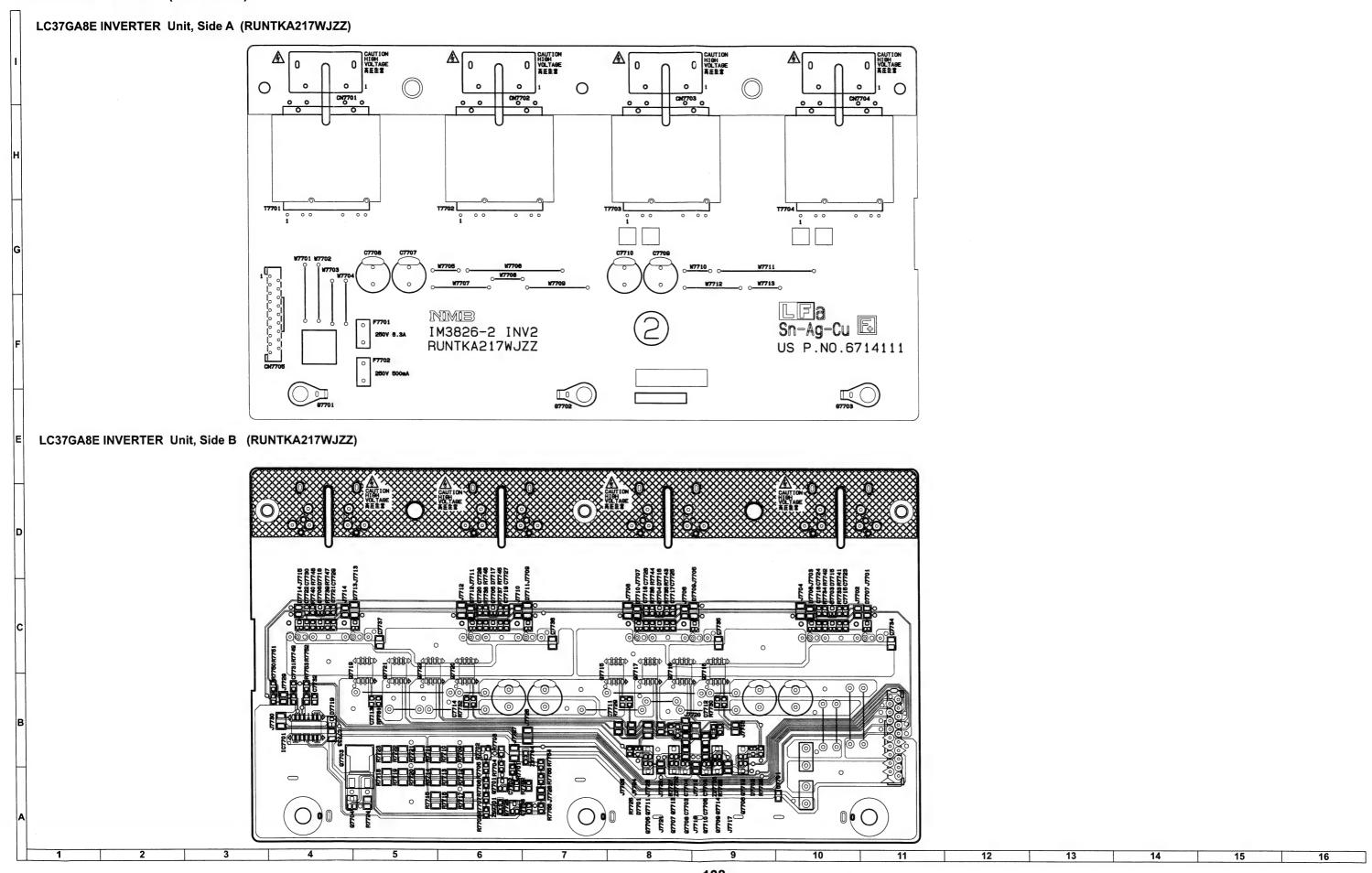


LC37GA8E INVERTER Unit, Side B (RUNTKA216WJZZ)





INVERTER Unit PWB (Continued)



PARTS LISTING REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by $\,\Delta\,$ in the Replacement Parts

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.

Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER

MARK* SPARE PARTS DELIVERY SECTION

3. PART NO. 5. CODE

2. REF. NO. 4. DESCRIPTION

6. QUANTITY

RI Y RIST MOT BINE		
RLY RUT NOT MOR		4.5
AF: 50: 110: 100-	PENDENTLY	
32BV8) R		
37BV8) R		
1		
R		
R		
R	ļ	
R		
R		
R		
R		
S	AS	BD
3	R R R R R R R R R R	R

	en e		DUNTKD890FM02/03 (LC-32/37GA8) MAIN Unit			
			INTEGRATED CIRCUITS			
	IC1701	VHIBU4239G+-1Y	BU4239G-TR	R	AE	AE
	IC1702	VHIPQ20WZ11-1Y	PQ20WZ1UJ00H	R	AF	AF
	IC1703	VHIPQ20WZ11-1Y	PQ20WZ1UJ00H	R	AF	AF
	IC1704	VSSSM6J51TU-1Y	SSM6J51TU(TE85L,F)	R	AF	AF
	IC1705	VSSSM6J51TU-1Y	SSM6J51TU(TE85L,F)	R	AF	AF
	IC1706	VHIMP1410ES-1Y	MP1410ES-LF-Z	R	AP	AP
	IC1707	VHIPQ20WZ11-1Y	PQ20WZ1UJ00H	R	AF	AF
	IC1708	VHIMP1410ES-1Y	MP1410ES-LF-Z	R	AP	AP
	IC1710	RH-IXB823WJZZQ	EPM240T100C5N	R	AR	AR
	IC1901	VHI24LC2BIN-1Y	24LC02BT-I/SN	R	AF	AF
	IC1905	VHISII9021+-1Q	SII9021CTU	R	BC	BC
	IC2301	VHIISL83220-1Y	ISL83220ECVZ-T	R	AQ	AQ
	IC2303	VHIBR24C21F-1Y	BR24C21F-E2	R	AG	AG
	IC2701	VHITVHC153T-1Y	TC74VHC153FT(EL,M)	R	AE	AE
	IC2702	VHIMM1507XN-1Y	MM1507XNRE	R	AD	AD
	IC2704	VHICD4052BP-1Y	CD4052BPWR	R	AD	AD
	IC3001	VHIBR24L64F-1Y	BR24L64F-WE2	R	AK	AK
	IC3002	RH-IXB624WJN1Q	VCT6973	R		
	IC3003	RH-IXB664WJZZY	PIC16F913-I/SS-G-GW902T	R	AY	AY
	IC3005	VHIBU4215G+-1Y	BU4215G-TR	R	AE	AE
			TRANSISTORS			
	Q1701	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
	Q1702	VS2SA1530ARS1Y	2SA1530ARS1Y	R	AC	AC
-	Q1703	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
	Q1704	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
	Q1901	VS2SK536///-1Y	2SK536	R	AE	AE
	Q1903	VS2SK536///-1Y	2SK536	R	AE	AE
	Q1905	VSDTC144EE/-1Y	DTC144EE	R	AA	AA

VSDTC144EE/-1Y

VSDTC144EE/-1Y

VS3LN01S///-1Y

VS2SC3928AR-1Y

VS2SC3928AR-1Y

VS2SC3928AR-1Y

Q1907

Q1909

Q2702

Q2703

Q2704

Q2705

DTC144EE

DTC144EE

2SC3928AR

2SC3928AR

2SC3928AR

3LN01S

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
Q2706		2SC3928AR	R	AB	AB
Q2707	VSDTC144EE/-1Y	DTC144EE	R	AA	AA
Q2708	VSDTC144EE/-1Y	DTC144EE	i R	AA	AA
Q3003		3LN01S	R	AC	i AC
Q3004	VS3LN01S///-1Y	3LN01S	R	AC	AC
Q000 1	- VOOLINGTONII-TT	DIODES	110	,,,,,	7.0
D1701	RH-EX1232CEZZY	HZU3.3B2TRF	R	AB	AB
D1702	RH-EX0487CEZZY	HZM2.0NBTL-E	R	AC	AC
D1703	VHDHSU119//-1Y	HSU119TRF-E	R	AB	AB
D1704	VHDSFPA73//2EY	SFPA-73VL	R	AD	AD
D1705	VHDHSU119//-1Y	HSU119TRF-E	R	AB	AB
D1706	VHDHSU119//-1Y	HSU119TRF-E	R	AB	AB
D1707	RH-EX0487CEZZY	HZM2.0NBTL-E	R		AC
	VHDSFPA73//2EY	SFPA-73VL	R		i AD
D1708				+	AB
D1901	VHDDAN202K/-1Y	DAN202KT146	R		
D1903	VHD1SS355//-1Y	1SS355TE-17	R		AB
D1905	VHD1SS355//-1Y	1SS355TE-17	R		AB
D2301	RH-EX1271CEZZY	ZENER DIODE, 12V	R		AB
D2302	RH-EX1271CEZZY	ZENER DIODE, 12V	, R		AB
D2303	RH-EX1271CEZZY	ZENER DIODE, 12V	R	_	AB
D2304	RH-EX1271CEZZY	ZENER DIODE, 12V	R	AB	AB
D2305	RH-EX1247CEZZY	ZENER DIODE, 5.6V	R	AB	AB
D2306	RH-EX1247CEZZY	ZENER DIODE, 5.6V	R	AB	AB
D2307	RH-EX1247CEZZY	ZENER DIODE, 5.6V	F	-	AB
D2308	RH-EX1247CEZZY	ZENER DIODE, 5.6V	F		AB
D2309	VHDDAN202K/-1Y	DAN202KT146	ı F		AB
		1SS226(T5L,F,T)	F	_	AC
D2310	VHD1SS226//-1Y				AC
D2311	VHD1SS226//-1Y	1SS226(T5L,F,T)	F		
D2312	VHD1SS226//-1Y	1\$\$226(T5L,F,T)	F	-	AC
D2313	RH-EX1247CEZZY	ZENER DIODE, 5.6V	F	R AB	AB
T. 10000	3/11/1144400100 43/	THERMISTOR		R AC	AC
TH3002	VHHM1103J03-1Y	Thermistor		\ \ \	· AU
X1901	RCRSCA108WJZZY	CRYSTAL Crystal	: 1	R AF	AF
X3001	RCRSC0012CEZZY	Crystal		R AH	AH
		COILS AND FILTERS			
FL2301	RFILN0003TAZZY	Filter			AD
FL2302	RFILN0003TAZZY	Filter		R AD	AD
FL2303	RFILN0003TAZZY	Filter		R AD	AD
L1701	RCILPA213WJZZY	Coil		R AG	, AG
L1702	RCILPA213WJZZY	Coil		R AG	AG
L1901	RCILFA134WJZZY	Coil		R AF	AF
L1902	RCILFA134WJZZY	Coil		R AF	AF
L1903	RCILFA134WJZZY	Coil		R AF	AF
L1904	RCILFA134WJZZY	Coil		R AF	AF
L1904	RCILFA134WJZZY	Coil		R AD	AD
				R AD	AD
L2302	RCILFA071WJZZY	Coil			
L2303	RCILFA071WJZZY	Coil		R AD	AD.
L2304	RCILFA071WJZZY	Coil		R AD	AD AD
12000	NOILI AUT ITTULE			11 110	1.0
C1702	VCKYCY1EF104ZY	CAPACITORS 0.1 25V Ceramic	T	R AA	AA
C1702	RC-KZA070WJZZY	22 6.3V Ceramic		R AD	: AD
	VCEASX1VN226MY			R AC	AC
C1715			-	R AC	AC
C1716	VCEASX1CN226MY				
C1717	VCKYCY1HB272KY			R AA	AA
	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1718	VCEASX1CN226MY			R AC	AC
C1718 C1720	10210/110/1220/11	68 10V Electrolytic		R AE	AE
C1718	VCAAPD1AJ686MY	00 107 61000017110		ni An	AD
C1718 C1720		10 16V Ceramic		R AD	
C1718 C1720 C1721 C1723	VCAAPD1AJ686MY			R AD	AD
C1718 C1720 C1721 C1723 C1724	VCAAPD1AJ686MY RC-KZA073WJZZY RC-KZA073WJZZY	10 16V Ceramic 10 16V Ceramic	,,,	R AD	_
C1718 C1720 C1721 C1723 C1724 C1726	VCAAPD1AJ686MY RC-KZA073WJZZY RC-KZA073WJZZY RC-KZA070WJZZY	10 16V Ceramic 10 16V Ceramic 22 6.3V Ceramic		R AD	AD
C1718 C1720 C1721 C1723 C1724 C1726 C1730	VCAAPD1AJ686MY RC-KZA073WJZZY RC-KZA073WJZZY RC-KZA070WJZZY VCKYCY1HB272KY	10 16V Ceramic 10 16V Ceramic 22 6.3V Ceramic 2700p 50V Ceramic		R AD R AA	AA
C1718 C1720 C1721 C1723 C1724 C1726	VCAAPD1AJ686MY RC-KZA073WJZZY RC-KZA073WJZZY RC-KZA070WJZZY	10 16V Ceramic 10 16V Ceramic 22 6.3V Ceramic 2700p 50V Ceramic 22 16V Electrolytic		R AD	AD AA AC

AA

AA

AC

AB

AB

AB

AA

AA

AB

R AC

R AB

R

R AB

REF No.	PARTS	DESCRIPTION			EX CODE	REF No.	PARTS	DESCRIPTION	*		EX CODE
C1737	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C2306	VCEASX1CN106MY	10 16V Electrolytic	R		AC
C1738	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C2307	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1739 C1740	VCKYCY1EF104ZY VCKYCY1EF104ZY	0.1 25V Ceramic 0.1 25V Ceramic	R	AA AA	AA AA	C2308 C2309	VCKYCY1HB104KY VCKYCY1HB104KY	0.1 50V Ceramic 0.1 50V Ceramic	R		AA
C1740	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2309	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA AA
C1741	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2310	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1744	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2701	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1745	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2702	VCCCCY1HH101JY	100p 50V Ceramic	R		AA
C1746	VCCCCY1HH102JY	1000p 50V Ceramic	R	AB	AB	C2703	VCCCCY1HH101JY	100p 50V Ceramic	R		AA
C1747	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2704	VCCCCY1HH101JY	100p 50V Ceramic	R		AA
		(LC-37GA8E/RU, LC-37BV8E/RU)				C2705	VCCCCY1HH101JY	100p 50V Ceramic	R		AA
C1748	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2706	VCEASX1HN105MY	1 50V Electrolytic	R	AB	AB
		(LC-37GA8E/RU, LC-37BV8E/RU)				C2707	VCEASX1HN105MY	1 50V Electrolytic	R	AB	AB
C1749	VCKYCY1HB221KY	220p 50V Ceramic	R	AA	AA	C2708	VCEASX1HN105MY	1 50V Electrolytic	R		AB
-		(LC-37GA8E/RU, LC-37BV8E/RU)				C2709	VCEASX1HN105MY	1 50V Electrolytic	R		AB
C1750	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2710	VCKYTV1EB104KY	0.1 25V Ceramic	R		AB
		(LC-37GA8E/RU, LC-37BV8E/RU)				C2712	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1751	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	C2714	VCEASX1CN106MY	10 16V Electrolytic	R		AC
04700	VCCCCY1HH101JY	(LC-37GA8E/RU, LC-37BV8E/RU)	0			C2715	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1752	VCCCCYTHHTUTJY	100p 50V Ceramic (LC-37GA8E/RU, LC-37BV8E/RU)	R	AA	AA	C2718	VCKYCY1CF105ZY	1 16V Ceramic		AA AA	AA
C1753	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2719 C2722	VCKYCY1CF105ZY VCKYCY1EF104ZY	1 16V Ceramic 0.1 25V Ceramic	R		AA
C1753	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2723	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA AA
C1757	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2724	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
C1758	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2725	VCKYCY1HB221KY	220p 50V Ceramic	F		AA
C1901	VCEASY1CN476MY	47 16V Electrolytic	R	AC	AC	C2726	VCKYTV1EB104KY	0.1 25V Ceramic	F		AB
C1903	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2729	VCKYCY1HB104KY	0.1 50V Ceramic	F		, AA
C1906	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C2732	VCKYTV1HB103KY	0.01 50V Ceramic	F		AA
C1910	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C3001	VCKYCY1EF104ZY	0.1 25V Ceramic	F		AA
C1912	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3002	RC-KZA073WJZZY	10 16V Ceramic	F		AD
C1913	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	. AA	C3003	VCKYCY1EF104ZY	0.1 25V Ceramic	F		AA
C1916	VCKYCY1HB102KY	1000p 50V Ceramic	R:		AA	C3004	RC-KZA073WJZZY	10 16V Ceramic	F	R AD	AD
C1917	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	. AA	C3005	RC-KZA073WJZZY	10 16V Ceramic	F		AD
C1918	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C3006	RC-KZA073WJZZY	10 16V Ceramic		R AD	AD
C1919	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C3007	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1921	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C3008	VCKYCY1EF104ZY	0.1 25V Ceramic	F		AA
C1923	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3009	VCKYCY1EF104ZY	0.1 25V Ceramic	F		AA
C1924	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3010	RC-KZA073WJZZY	10 16V Ceramic		R! AD	AD
C1927	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3011	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1928 C1929	VCKYCY1HB103KY VCCCCY1HH120JY	0.01 50V Ceramic 12p 50V Ceramic	R	AA AA	AA AA	C3012	VCKYCY1EF104ZY VCKYCY1EF104ZY	0.1 25V Ceramic 0.1 25V Ceramic		R AA	AA
C1929	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3013	VCKYCY1HB104KY	0.1 50V Ceramic	F		AA AA
C1930	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	C3014	VCKYCY1EF104ZY			R AA	AA
C1934	VCCCCY1HH120JY	12p 50V Ceramic	R	AA	AA	C3016	VCKYCY1HB104KY		F		AA
C1935	RC-KZA073WJZZY	10 16V Ceramic	R		AD	C3017	RC-KZA073WJZZY	10 16V Ceramic		R: AD	AD
C1936	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3018	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1941	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3019	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1943	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3020	VCKYCY1HB104KY			R AA	AA
C1946	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3021	VCCCCY1HH560JY	56p 50V Ceramic		R AB	AB
C1947	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C3022	RC-KZA073WJZZY	10 16V Ceramic		R AD	AD
C1948	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3023	VCKYCY1EF104ZY	0.1 25V Ceramic		R: AA	AA
C1953	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA	C3024	VCKYCY1EF104ZY	0.1 25V Ceramic	F	R AA	. AA
C1955	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3025	VCKYCY1EF104ZY	0.1 25V Ceramic	F	R AA	AA
C1956	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3027	RC-KZA073WJZZY	10 16V Ceramic		R AD	AD
C1959	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	C3028	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA
C1960	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	C3029	RC-KZA073WJZZY	10 16V Ceramic		R AD	AD
C1965	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3030	VCKYCY1EF104ZY	0.1 25V Ceramic		R' AA	AA
C1967	VCKYCY1HB102KY	1000p 50V Ceramic	R		; AA	C3031	RC-KZA073WJZZY	10 16V Ceramic		R AD	AD
C1968	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3032	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA AA
C1969 C1971	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	C3033	VCKYCY1EF104ZY VCCCCY1HH150JY	0.1 25V Ceramic		R AA	AA
C1971	VCKYCY1HB102KY VCKYCY1HB102KY		R		AA AA	C3034 C3035	RC-KZA073WJZZY			R AA R AD	AA.
C1973	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA AA	C3035	RC-KZAU/3WJZZY	10 16V Ceramic 10 16V Ceramic			AD
C1974	VCKYCY1HB102KY		R		AA	C3037	VCKYCY1EF104ZY			R AD	AD
C2301	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA	C3037	VCKYCY1EF104ZY	0.1 25V Ceramic		R AA	AA AA
C2302	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA	C3039	VCCCCY1HH180JY			R AA	
C2303	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA	C3040	RC-KZA073WJZZY	10 16V Ceramic		R AA	; AA ; AD
C2304	VCKYCY1EF104ZY	0.1 25V Ceramic	R		- AA	C3040	RC-KZAU73WJZZY	10 16V Ceramic		R AD	AD
ULUUT	PORTOTILI 10421	0.1 25V Ceramic	R	-	AA	C3041	VCKYCY1EF104ZY			R AA	AA AA

REF No.	PARTS	DESCRIPTION	. 8	N CODE	EX CODE	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CO
3044	VCKYCY1HB103KY	0.01 50V Ceramic	R	AA	AA	R1764	VRS-CY1JF220JY	22 1/16W Metal Oxide	R	AA	AA
3045	VCKYCY1HB103KY	0.01 50V Ceramic	R	AA	AA	R1767	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA
3046	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R1768	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA
	VCEASX0JN476MY	47 6.3V Electrolytic	R	AC	AC	R1773	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA
3048			R	AA	AA	MITTO	VIVO-0110100001	(LC-32GA8E/RU, LC-32BV8E/RU)	- 1.		+ ***
3049	VCKYCY1HB102KY	1000p 50V Ceramic			AC	D4774	VDC CV4 IF470 IV	47 1/16W Metal Oxide	R	AA	AA
3338	VCEASX0JN476MY	47 6.3V Electrolytic	I R	AC	-	R1774	VRS-CY1JF470JY		11/	AA	
3340	VCEASX0JN476MY	47 6.3V Electrolytic	R	AC	AC			(LC-32GA8E/RU, LC-32BV8E/RU)			
		BESISTORS				R1775	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA
	1 (D.D. D.V.) (P.E.O.) ()	RESISTORS		A A	AA			(LC-32GA8E/RU, LC-32BV8E/RU)			
21701	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide	R	AA	AA	R1901	VRS-CY1JF272JY	2.7k 1/16W Metal Oxide	R		AA
1702	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	R1903	VRS-CY1JF152JY	1.5k 1/16W Metal Oxide	R		AA
1703	VRS-TW2ED561JY	560 1/4W Metal Oxide	R	AA	AA	R1906	VRS-CY1JF473JY	47k 1/16W Metal Oxide	R	AA	AA
1704	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	R1908	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R		A
1705	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	R1911	VRS-CJ1JF474JY	470k 1/16W Metal Oxide	R		AA
1706	VRS-CY1JF333JY	33k 1/16W Metal Oxide	R	AA	AA	R1913	VRS-CJ1JF473JY	47k 1/16W Metal Oxide	R		AE
1707	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA						. A
1709	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	R1914	VRS-CJ1JF100JY	10 1/16W Metal Oxide	R		
			R	AA	AA	R1917	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R		A
1713	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide				R1919	VRS-CY1JF100JY	10 1/16W Metal Oxide	R		A
1714	VRS-CY1JF000JY	0 1/16W Metal Oxide	R.	AA	AA	R1920	VRS-CH1JF100JY	10 1/16W Metal Oxide	R	AA	A
1715	VRS-CY1JF470JY	47 1/16W Metal Oxide	R	AA	AA	R1921	VRS-CH1JF100JY	10 1/16W Metal Oxide	R	AA	A
		(LC-37GA8E/RU, LC-37BV8E/RU)				R1922	VRS-CH1JF100JY	10 1/16W Metal Oxide	R		A
1716	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide	R	AA	AA			10 1/16W Metal Oxide	R		A
1717	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	R1923	VRS-CH1JF100JY				
11	71.0 0110100001	(LC-32GA8E/RU, LC-32BV8E/RU)				R1924	VRS-CH1JF100JY	10 1/16W Metal Oxide	R		1
1717	VRS-CY1JF470JY	47 1/16W Metal Oxide	R	AA	. AA	R1925	VRS-CH1JF100JY	10 1/16W Metal Oxide	R		1
1717	VK5-U1 IJF4/UJY		N	- M	- AA	R1926	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	R		1
		(LC-37GA8E/RU, LC-37BV8E/RU)				R1927	VRS-CH1JF100JY	10 1/16W Metal Oxide	R	. AA	1
1718	VRS-CY1JF470JY	47 1/16W Metal Oxide	R	AA	AA	R1928	VRS-CY1JF223JY	22k 1/16W Metal Oxide	R	I AA	1
		(LC-37GA8E/RU, LC-37BV8E/RU)				R1929	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	R		1
1719	VRS-CY1JF622FY	6.2k 1/16W Metal Oxide	R	AA	AA		VRS-CY1JF910FY	91 1/16W Metal Oxide	R	*******	
1720	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	R1930					
1721	VRS-CY1JF562FY	5.6k 1/16W Metal Oxide	R		AA	R1931	VRS-CY1JF910FY	91 1/16W Metal Oxide	R		1
	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R		AA	R1932	VRS-CY1JF105JY	1M 1/16W Metal Oxide	R		1
1722					AA	R1933	VRS-CY1JF152JY	1.5k 1/16W Metal Oxide	F	R AA	1
R1723	VRS-CY1JF622FY	6.2k 1/16W Metal Oxide	R			R1934	VRS-CJ1JF101JY	100 1/16W Metal Oxide	F	AA :	1
21724	VRS-CY1JF101JY	100 1/16W Metal Oxide	R		AA	R1935	VRS-CY1JF330JY	33 1/16W Metal Oxide	F	AA S	
R1726	VRS-CY1JF511FY	510 1/16W Metal Oxide	R		, AA	R1936	VRS-CY1JF330JY	33 1/16W Metal Oxide		R AA	
R1727	VRS-CY1JF332JY	3.3k 1/16W Metal Oxide	R		AA			10k 1/16W Metal Oxide		RI AA	-
R1728	VRS-CY1JF332JY	3.3k 1/16W Metal Oxide	R	AA	AA	R1937	VRS-CY1JF103JY				_
R1729	VRS-CY1JF202FY	2.0k 1/16W Metal Oxide	R	AA	AA	R2301	VRS-CY1JF000JY	0 1/16W Metal Oxide			
R1730	VRS-CY1JF470JY	47 1/16W Metal Oxide	R		AA	R2302	VRS-CH1JF103JY	10k 1/16W Metal Oxide		R AA	_
11100	110-01101-11001	(LC-37GA8E/RU, LC-37BV8E/RU)			1	R2303	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	
04704	VIDO OVA IE400 IV		R	AA	AA			(LC-32GA8E/RU, LC-32BV8E/RU)			
R1731	VRS-CY1JF102JY	1k 1/16W Metal Oxide		M	M	R2305	VRS-CH1JF103JY	10k 1/16W Metal Oxide	1	R AA	
		(LC-37GA8E/RU, LC-37BV8E/RU)				R2307	VRS-CJ1JF101JY	100 1/16W Metal Oxide	- 1	R AA	
R1732	VRS-CY1JF202FY	2.0k 1/16W Metal Oxide	R	AA	AA	R2309	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide		R AA	
R1733	VRS-CY1JF101JY	100 1/16W Metal Oxide	R	AA	AA						
R1734	VRS-CY1JF222FY	2.2k 1/16W Metal Oxide	R	AA	AA	R2313	VRS-CY1JF100JY	10 1/16W Metal Oxide		R AA	
R1735	VRS-CY1JF202FY	2.0k 1/16W Metal Oxide	R	AA	AA	R2314	VRS-CY1JF103JY	10k 1/16W Metal Oxide		R AA	_
R1736	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R		AA	R2315	VRS-CJ1JF101JY	100 1/16W Metal Oxide		R AA	
11110	41/0-0110110201	(LC-37GA8E/RU, LC-37BV8E/RU)	1	7.01	1	R2321	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	
D4707	ADO OAT ILCOUR		R	I AA	AA	R2322	VRS-TW2ED750JY	75 1/4W Metal Oxide		R AA	
R1737	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide				R2324	VRS-TW2ED750JY			R AA	i
R1739	VRS-TW2HF1R0JY		F			R2325	VRS-TW2ED750JY			R AA	
R1740	VRS-TW2HF1R0JY		F							R AA	
R1741	VRS-TW2HF1R0JY	1 1/2W Metal Oxide	F			R2326	VRS-CY1JF102JY	1k 1/16W Metal Oxide			
R1742	VRS-TW2HF1R0JY	1 1/2W Metal Oxide	F			R2329	VRS-CY1JF103JY	10k 1/16W Metal Oxide		R AA	
R1743	VRS-CY1JF101JY	100 1/16W Metal Oxide	F	R. AA	AA	R2332	VRS-CY1JF473JY	47k 1/16W Metal Oxide		R AA	
R1744	VRS-CY1JF562FY	5.6k 1/16W Metal Oxide	F			R2333	VRS-CH1JF101JY	100 1/16W Metal Oxide		R AA	
R1745	VRS-CY1JF132JY	1.3k 1/16W Metal Oxide	F	R AG		R2334	VRS-CY1JF103FY	10k 1/16W Metal Oxide		R AA	. !
		2.0k 1/16W Metal Oxide	F			R2335	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	.
R1746	VRS-CY1JF202JY					R2339	VRS-CY1JF102FY			R AA	
R1747	VRS-CY1JF511FY	510 1/16W Metal Oxide	F			R2341	VRS-CY1JF393FY			R AA	
R1748	VRS-CY1JF202FY	2.0k 1/16W Metal Oxide	i							R AA	_
R1752	VRS-CY1JF470JY	47 1/16W Metal Oxide	í			R2342	VRS-CY1JF103JY	10k 1/16W Metal Oxide			
R1753	VRS-CY1JF622FY	6.2k 1/16W Metal Oxide	1		AA	R2343	VRS-CY1JF102FY			R A	
R1754	VRS-CY1JF622FY	6.2k 1/16W Metal Oxide	1	R AA	. AA	R2702	VRS-CJ1JF101JY	100 1/16W Metal Oxide		R A	
R1755	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide		R AA		R2703	VRS-CJ1JF473JY	47k 1/16W Meta! Oxide		R AE	}
R1757	VRS-TW2HF1R0J			R AA		R2704	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R A	1
	A 1844011111				_	R2706	VRS-CJ1JF224JY	220k 1/16W Metal Oxide		R A	_
R1758	VRS-TW2HF1R0J					_	VRS-CJ1JF224JY			R A	
R1759	VRS-TW2HF1R0J			R AA		R2707					
R1760	VRS-TW2HF1R0J			R AA		R2708	VRS-CH1JF104JY			R A	-
R1761	VRS-CY1JF101JY	100 1/16W Metal Oxide		R AA	AA AA	R2709	VRS-CH1JF104JY			R; A	_
R1762	VRS-CY1JF220JY			R AA		R2710	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R A	4
R1763	VRS-CY1JF220JY			R A		R2711	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R A	A .

REF No.	PARTS	DESCRIPTION	*	SN CODI	E EX CODE	REF No.	PARTS	DESCRIPTION	• 3	SN CODE	EX CC
2712	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R	AA	. AA	FB3012	RBLN-0254TAZZY	Ferrite Bead	R	AB	AB
2713	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	FB3013	RBLN-0254TAZZY	Ferrite Bead	R	AB	AB
R2714	VRS-CY1JF101JY	100 1/16W Metal Oxide	R	AA	AA	FB3014	RBLN-0254TAZZY	Ferrite Bead	R	AB	AB
R2716	VRS-CJ1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	FB3015	RBLN-0254TAZZY	Ferrite Bead	R	AB	AE
2718	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	FB3016	RBLN-0254TAZZY	Ferrite Bead	R	AB	A
R2722	VRS-CY1JF101JY	100 1/16W Metal Oxide	R	AA	AA	FB3018	RBLN-0254TAZZY	Ferrite Bead	R	AB	AE
R2724	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	FB3307	RBLN-0061TAZZY	Ferrite Bead	R	AD	A
R3001	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R	AA	AA	FB3308	RBLN-0061TAZZY	Ferrite Bead	R	AD	AI
R3002	VRS-CY1JF220JY	22 1/16W Metal Oxide	R	AA	AA				1::1		
R3003	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA			MISCELLANEOUS PARTS			
R3004	VRS-CJ1JF101JY	100 1/16W Metal Oxide	R	AA	AA	J2701	QJAKEA073WJZZ	Audio Terminal	R	AD	A[
R3005	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	J2702	QJAKEA073WJZZ	Audio Terminal	R	AD	A
R3006	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	LUG1701	QLUGHA006WJZZY	Lug	R	AC	A
R3007	VRS-CY1JF622JY	6.2k 1/16W Metal Oxide				LUG1702	QLUGHA006WJZZY	Lug	R	AC	A
			R	AA	AA	LUG1703	QLUGHA006WJZZY	Lug	R	AC	A
R3008	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	LUG1704	QLUGHA006WJZZY	Lug	R	AC	A
R3009	VRS-CJ1JF101JY	100 1/16W Metal Oxide	R	AA	. AA	LUG1705	QLUGZA002WJZZY	Lug	R	AC	A
R3010	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	LUG1706	QLUGZA002WJZZY	Lug	R	AC	A
R3012	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	LUG1707	QLUGZA002WJZZY				_
R3013	VRS-CY1JF103JY	10k 1/16W Metal Oxide	R	AA	AA	co vita		Lug	R	AC	A
R3014	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide	R	AA	AA	LUG1708	QLUGZA002WJZZY	Lug	R	AC	A
R3017	VRS-CY1JF390JY	39 1/16W Metal Oxide	R	AA	AA	LUG1709	QLUGZA002WJZZY	Lug	R	AC	A
R3018	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	P1701	QPLGNA342WJZZY	Plug, 8-pin(LB)	R	AD	I A
R3306	VRS-CY1JF220JY	22 1/16W Metal Oxide	R	AA	AA			(LC-37GA8E/RU, LC-37BV8E/RU)			<u> </u>
R3307	VRS-CY1JF220JY	22 1/16W Metal Oxide	R	AA	AA	P1702	QPLGN1075TAZZY	Plug, 10-pin	R	AD	F
R3308	VRS-CY1JF220JY	22 1/16W Metal Oxide	R	AA	AA	P2301	QPLGNA341WJZZY	Plug, 7-pin(SH)	R	AD	F
10000	1110 0110122001	LE II TOTT HOLD ONDO	[11]	701	701	P2302	QPLGNA337WJZZY	Plug, 3-pin(KM)	R	AC	1
		FERRITE BEAD				P2303	QPLGNA344WJZZY	Plug, 10-pin(RA)	R	AD	1
FB1701	RBLN-0250TAZZY	Ferrite Bead	R	AC	AC	P2305	QPLGNA493WJZZY	Plug, 32-pin(LV)	R	AM	1
FB1702	RBLN-0250TAZZY	Ferrite Bead	R	AC	AC	P2306	QPLGN0565FJZZY	Plug, 3-pin	R	AE	1
FB1901	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC1701	QCNCWA251WJZZY	Connector, 23-pin	R	AH	1
FB1903	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC1702	QCNCWA248WJZZY	Connector, 9-pin	R	AD	1
FB1904	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC1901	QSOCZA117WJZZQ	EXT5/HDMI Terminal	R	AK	1
FB1905	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC2301	QSOCDA036WJZZ	PC-INPUT(RS-232C) Terminal	R	AF	,
FB1906	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC2303	QSOCNA229WJZZ	EXT4/D-SUB-15 Terminal	R	AH	/
FB1907	RBLN-0210TAZZY	Ferrite Bead	R.	AB	AB	SC2702	QCNCWA251WJZZY	Connector, 23-pin	R	AH	1
FB1908	RBLN-0060TAZZY	Ferrite Bead	R	AB	AB	SC2703	QCNCWA251WJZZY	Connector, 23-pin	R	AH	: 1
FB1909	RBLN-0210TAZZY	Ferrite Bead	R	AB	AB	SC2704	QCNCWA251WJZZY	Connector, 23-pin	R	AH	1
FB2301	RBLN-0061TAZZY	Ferrite Bead	R	AD	: AD	SC2705	QCNCWA010WJZZY	Connector, 15-pin	R	AE	1
FB2302	RBLN-0061TAZZY	Ferrite Bead	R	AD	AD			DUNTKD604FM10			
								41711 4			
FB2303	VRS-TV2BDR56JY	0.56 1/8W Metal Oxide	R		1 1			AV Unit			
FB2303 FB2304	VRS-TV2BDR56JY VRS-TV2BDR56JY		R					AV UNIT			
FB2304	VRS-TV2BDR56JY	0.56 1/8W Metal Oxide	R	AD	AD			INTEGRATED CIRCUITS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
FB2304 FB2305	VRS-TV2BDR56JY RBLN-0061TAZZY	0.56 1/8W Metal Oxide Ferrite Bead	R R	AD AD	AD AD	IC301	VHITDA8931T-1Y		R	AS	
FB2304 FB2305 FB2306	VRS-TV2BDR56JY RBLN-0061TAZZY RBLN-0061TAZZY	0.56 1/8W Metal Oxide Ferrite Bead Ferrite Bead	R R R	AD	AD	IC301 IC302	VHITDA8931T-1Y VHITDA8931T-1Y	INTEGRATED CIRCUITS	R	AS AS	
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FB2304 FB2305 FB2306 FB2307 FB2308 FB2309 FB2310 FB2701	VRS-TV2BDR56JY RBLN-0061TAZZY RBLN-0061TAZZY RBLN-0061TAZZY RBLN-0061TAZZY RBLN-0061TAZZY RBLN-0061TAZZY RBLN-0210TAZZY RBLN-0254TAZZY	0.56 1/8W Metal Oxide Ferrite Bead	R R R R R R	AD AD AD AD AB AB	AD AD AD AD AB AB	IC302 IC303 IC1101	VHITDA8931T-1Y VHINJM4558M-1Y VHIMM1506XN-1Y	INTEGRATED CIRCUITS TDA8931T/N1,118 TDA8931T/N1,118 NJM4558M-TE1 MM1506XNRE	R R R	AS AD AD	
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REF No.	PARTS	DESCRIPTION		SN CODE	EX CODE	REF No.	PARTS	DESCRIPTION		SN CODE	EX COD
301		UDZSTE-1712B	R	AB	AB	C312	VCKYCY1HB222KY	2200p 50V Ceramic	R	AA	AA
302		UDZSTE-1712B	R	AB	AB	C313	VCKYCY1HB222KY	2200p 50V Ceramic	R	AA	AA
303		UDZSTE-1712B	R	AB	AB	C314	VCKYCY1HB153KY	0.015 50V Ceramic	R	AA	AA
0304		UDZSTE-1712B	R	AB	AB	C315	VCKYCY1HB153KY	0.015 50V Ceramic	R	AA	AA
0305		UDZSTE-174.3B	R	AB	AB	C316	VCCCCY1HH330JY	33p 50V Ceramic	R	AA	AA
0306	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	C317	VCCCCY1HH330JY	33p 50V Ceramic	R	AA	AA
0307	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	C318	VCCCCY1HH470JY	47p 50V Ceramic	R	AA	AA
)308	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	C319	VCCCCY1HH470JY	47p 50V Ceramic	R	AA	AA
			R	AB	AB	C320	VCEASX1HN225MY	2.2 50V Electrolytic	R	AB	AB
0309	VHD1SS390++-1Y	1SS390TE61									AB
D310	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	C321	VCEASX1HN225MY	2.2 50V Electrolytic	R	AB	AA
D311	RH-EXA103WJZZY	UDZSTE-1736B	R	AB	AB	C322	VCKYCY1HF224ZY	0.22 50V Ceramic	R	AA	
D312	RH-EXA103WJZZY	UDZSTE-1736B	R	AB	AB	C323	VCKYCY1HF224ZY	0.22 50V Ceramic	R	AA	- AA
D313	RH-EXA088WJZZY	UDZSTE-173.9B	R	AB	AB	C324	VCEASX1HN106MY	10 50V Electrolytic	R	AC	AC
D314	RH-EXA101WJZZY	UDZSTE-1730B	R		AB	C325	VCEASX1HN106MY	10 50V Electrolytic	R	AC	AC
D315	RH-EXA101WJZZY	UDZSTE-1730B	R		AB	C326	VCKYCY1HB153KY	0.015 50V Ceramic	R	AA	AA
D316	RH-EXA101WJZZY	UDZSTE-1730B	R	AB	AB	C327	VCKYCY1HB153KY	0.015 50V Ceramic	R	AA	AA
D317	RH-EXA101WJZZY	UDZSTE-1730B	R	AB	AB	C328	VCEASX1HN225MY	2.2 50V Electrolytic	R	AB	AB
D318	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	C329	VCEASX1HN225MY		R	AB	AB
D1101	RH-EXA094WJZZY	UDZSTE-1715B	R		AB	C330	VCESYA1VM477M+		R		
D1102	RH-EXA088WJZZY	UDZSTE-173.9B	R		AB	C331	VCESYA1VM477M+		R		<u> </u>
D1103	RH-EXA088WJZZY	UDZSTE-173.9B	R		AB	C332	VCKYCY1HB221KY	220p 50V Ceramic	R	AA	AA
D1103	RH-EXA000VVJZZY	UDZSTE-1715B	R		AB	C333	VCKYCY1HB221KY	220p 50V Ceramic	R	AA	AA
D1104	RH-EXAU94WJZZY	UDZSTE-1713B	R		AB	C334	VCKYCY1HB221KY	220p 50V Ceramic	R	AA	AA
					AB						
D1106	RH-EX1393CEZZY	UDZSTE-175.1B	R		AB	C335	VCKYCY1HB221KY	220p 50V Ceramic	R		AA
D1107	RH-EX1393CEZZY	UDZSTE-175.1B	R			C336	VCEASX1HN105MY		R	AB	AB
D1109	RH-EX1398CEZZY	UDZSTE-178.2B	R		AB	C337	VCEASX1HN105MY		R		AB
D1110	RH-EX1398CEZZY	UDZSTE-178.2B	F		AB	C338	RC-EZA513WJZZ	470 50V Electrolytic	R		AH
D1111	RH-EX1398CEZZY	UDZSTE-178.2B	F		AB	C339	RC-EZA513WJZZ	470 50V Electrolytic	R		AH
D1112	RH-EX1398CEZZY	UDZSTE-178.2B	F	AB	AB	C340	VCKYTV1EB224KY	0.22 25V Ceramic	R		AA
D1113	RH-EX1393CEZZY	UDZSTE-175.1B	F	AB	AB	C341	VCKYTV1EB224KY	0.22 25V Ceramic	R	AA	AA
D1114	RH-EX1393CEZZY	UDZSTE-175.1B	F	AB	AB	C342	VCFYFA1HA334J+	0.33 50V Capacitor	R	AB	AB
D1115	RH-EX1393CEZZY	UDZSTE-175.1B	F		AB	C343	VCFYFA1HA334J+	0.33 50V Capacitor	R		AB
D1116	RH-EX1393CEZZY	UDZSTE-175.1B	F		AB	C344	VCEASX1HN105MY		R		AB
D1117	RH-EX1393CEZZY	UDZSTE-175.1B	F		AB	C345	VCEASX1HN105M		R		AB
D1118	RH-EXA088WJZZY	UDZSTE-173.9B	F.		AB	C345	VCEASX1HN105M		R		AB
D1119	RH-EXA088WJZZY	UDZSTE-173.9B	F		AB				. R		AB
	RH-EXA088WJZZY		F		AB	C347	VCEASX1HN105M				
D1120		UDZSTE-173.9B			AB	C348	VCEASX1VN226MY		R		AC
D1121	RH-EXA088WJZZY	UDZSTE-173.9B	- 1			C349	VCEASX1VN226M		R	+	AC
D1122	RH-EXA088WJZZY	UDZSTE-173.9B			AB	C350	VCKYCY1HB103KY		R		AA
D1123	RH-EXA088WJZZY	UDZSTE-173.9B		R AB	AB	C351	VCKYCY1HB103KY	0.01 50V Ceramic	R		AA
D1201	RH-EX1239CEZZY			R AB	AB	C352	VCKYCY1HB103KY	0.01 50V Ceramic	R	AA	AA
						C353	VCKYCY1HB103KY	/ 0.01 50V Ceramic	R	R AA	AA
		COILS AND FILTERS				C354	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA
L301	RCILPA386WJZZ	Coil		R AF	AF	C355	VCKYCY1HB102K			AA	AA
L302	RCILPA386WJZZ	Coil		R AF	AF	C356	VCEASY1HN476M		F		AD
FL1101	RFILN0017TAZZY	Filter		R AC	AC	C357	VCEASY1HN476M			R AD	: AD
FL1102	RFILN0017TAZZY	Filter		R AC	AC					R AC	AC
FL1103	RFILN0017TAZZY	Filter		R AC	AC	C358	VCEASX1HN106M				
FL1104	RFILN0017TAZZY	Filter		R AC	AC	C359	VCEASX1HN106M			R AC	A
FL1105	RFILN0017TAZZY	Filter		R AC		C360	VCEASY1CN476M			R AC	A
FL1106	RFILN0017TAZZY	Filter		R AC		C361	RC-KZA073WJZZY			R AD	A
FL1107	RFILN0017TAZZY	Filter		R AC		C362	VCKYTV1EB224K			R AA	A
	RFILN0017TAZZY			R AC		C363	VCKYTV1EB224K	0.22 25V Ceramic		R AA	A
FL1108		Filter				C364	VCEASY1CN477M	Y 470 16V Electrolytic	F	R AD	A
FL1109	RFILN0017TAZZY	Filter		R AC		C365	VCKYCY1HB222K			R AA	A
FL1110	RFILN0017TAZZY	Filter		R AC		C366	VCKYCY1HB222K			R AA	A
FL1211	RFILN0017TAZZY	Filter		R AC		C1101	VCKYTV1EB104K			R AB	4
FL1212	RFILN0017TAZZY	Filter		R AC	AC	C1102	VCKYTV1EB104K			R AB	1
<u></u>		CAPACITORS				C1103	VCKYTV1EB104K			R AB	
C301	VCKYCY1CB273KY			R AB		C1104	VCCCCY1HH101J			R AA	
C302	VCKYCY1CB273KY	0.027 16V Ceramic		R AB		C1105	VCKYTV1EB104K			R AB	_
C303	VCKYCY1HF224ZY			R AB	AB	C1106	VCKYTV1EB104K			R AB	
C304	VCKYCY1HF224ZY			R AA		C1107	VCKYTV1EB104K			R AB	1
C305	VCKYCY1HB104KY			R AA		C1108	VCCCCY1HH101J			R AA	1
C306	VCEASX1HN225M			R AB		C1109	RC-KZA073WJZZ			R AD	_
	VCEASX1HN225M			R AE		C1110	RC-KZA073WJZZ			Ri AD	
C307						C1114	VCKYCY1HB221k			R AA	
C308	VCKYCY1HB104KY			R AA							
C309	VCKYCY1HB222KY			R AA		C1116	VCKYCY1HB221k			RI AA	
C310 C311	VCKYCY1HB222K			R A		C1117	VCCCCY1HH101.			R AA	
	VCEASX1CN226M			R AC		C1118	VCCCCY1HH101			R AA	

REF No.	PARTS	DESCRIPTION		SN CODE	EX CODE	REF No.	PARTS	DESCRIPTION		SN CODE	E EX CODE
C1119		1000p 50V Ceramic	R	AA	AA	R311	VRS-CY1JF102JY	1k 1/16W Metal Oxide	F		AA
C1120	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	R312	VRS-CY1JF102JY	1k 1/16W Metal Oxide	F	R AA	AA
C1121	VCKYTV1CB105KY	1 16V Ceramic	R	AC	AC	R313	VRS-CY1JF102JY	1k 1/16W Metal Oxide	F		AA
C1122		330p 50V Ceramic	R	AA	AA	R314	VRS-CY1JF392JY	3.9k 1/16W Metal Oxide		R AA	AA
C1123		330p 50V Ceramic	R	AA	AA	R315	VRS-CY1JF474JY	470k 1/16W Metal Oxide		R AA	AA
C1124		1 16V Ceramic	R	AC	AC	R316	VRS-CY1JF392JY	3.9k 1/16W Metal Oxide	F		AA
C1125		470p 50V Ceramic	R	AA	AA	R317	VRS-CY1JF474JY	470k 1/16W Metal Oxide		R AA	AA
C1126 C1127	VCKYCY1HB471KY VCCCCY1HH101JY	470p 50V Ceramic 100p 50V Ceramic	R	AA AA	AA AA	R318	VRS-TW2HF820JY	82 1/2W Metal Oxide	F		AB
C1128	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	R319	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	F	-	AA
C1130		470 16V Electrolytic	R	AD	AD	R320	VRS-CY1JF122JY VRS-CY1JF103JY	1.2k 1/16W Metal Oxide		R AA	AA
C1131	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R322	VRS-CYTJF103JY	10k 1/16W Metal Oxide 10k 1/16W Metal Oxide		R AA	AA
C1132	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R323	VRS-CY1JF103JY	47k 1/16W Metal Oxide		R AA	AA AA
C1133	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R324	VRS-CY1JF473JY	47k 1/16W Metal Oxide		R AA	AA
C1134	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	R325	VRS-CY1JF272JY	2.7k 1/16W Metal Oxide		R AA	AA
C1135	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	R326	VRS-CY1JF272JY	2.7k 1/16W Metal Oxide		R AA	AA
C1136	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R327	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1137	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R328	VRS-CJ1JF392JY	3.9k 1/16W Metal Oxide		R AA	AA
C1138	VCKYTV1CB105KY	1 16V Ceramic	R	AC	AC	R329	VRS-CY1JF682JY	6.8k 1/16W Metal Oxide		R AA	AA
C1139	VCKYCY1HB331KY	330p 50V Ceramic	R	AA	AA	R330	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide		R AA	AA
C1140	VCKYCY1HB331KY	330p 50V Ceramic	R!	AA	AA	R331	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide		R AA	AA
C1142	VCKYTV1CB105KY	1 16V Ceramic	R	AC	AC	R332	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	AA
C1143	VCKYCY1HB471KY	470p 50V Ceramic	R	AA	AA	R333	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1144	VCKYCY1HB471KY	470p 50V Ceramic	R	AA	AA	R334	VRS-CY1JF682JY	6.8k 1/16W Metal Oxide		R AA	AA
C1145	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R335	VRS-TW2ED100JY	10 1/4W Metal Oxide		R AA	AA
C1146	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R336	VRS-TW2ED100JY	10 1/4W Metal Oxide		R AA	AA
C1147	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA	R337	VRS-TW2ED100JY	10 1/4W Metal Oxide		R AA	AA
C1148	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R338	VRS-TW2ED100JY	10 1/4W Metal Oxide		R AA	AA
C1157	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R339	VRS-TW2ED220JY	22 1/4W Metal Oxide		R AB	AB
C1158 C1159	RC-KZA073WJZZY VCKYCY1HF103ZY	10 16V Ceramic 0.01 50V Ceramic	R	AD AA	AD	R340	VRS-TW2ED220JY	22 1/4W Metal Oxide		R AB	AB
C1160	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA AA	R341	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1161	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R342	VRS-CJ1JF332JY	3.3k 1/16W Metal Oxide		R AA	AA
C1162	VCEASY1CN477MY	470 16V Electrolytic	R	AD	AD	R343	VRS-TW2ED000JY	0 1/4W Metal Oxide		R AB	AB
C1201	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	. AA	R344	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1202	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R345	VRS-CJ1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1203	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	R346	VRS-CY1JF560JY	56 1/16W Metal Oxide		R AA	AA
C1204	VCCCCY1HH100DY	10p 50V Ceramic	R	AA	AA	R347	VRS-CY1JF560JY	56 1/16W Metal Oxide		R AA	AA
C1205	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R348	VRS-CJ1JF222JY	2.2k 1/16W Metal Oxide		R AA	AA
C1206	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	R349	VRS-CY1JF101JY	100 1/16W Metal Oxide		R: AA	AA
C1207	VCCCCY1HH100DY	10p 50V Ceramic	R	AA	AA	R350 R351	VRS-CY1JF101JY VRS-CY1JF103JY	100 1/16W Metal Oxide 10k 1/16W Metal Oxide		R AA	AA
C1208	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R352	VRS-CY1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1210	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	R353	VRS-CY1JF103JY	1k 1/16W Metal Oxide		R AA	AA AA
C1211	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA	R354	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	AA
C1212	VCKYTV1CB105KY	1 16V Ceramic	R	AC	AC	R355	VRS-TW2ED2R7JY			R AB	AB
C1216	VCCCCY1HH101JY	100p 50V Ceramic	R		AA	R356	VRS-CY1JF103JY	10k 1/16W Metal Oxide		R AA	AA
C1217	VCKYCY1HB102KY	1000p 50V Ceramic	R		AA	R358	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
C1218	VCKYTV1CB105KY	1 16V Ceramic	R	AC	AC	R360	VRS-CY1JF472JY	4.7k 1/16W Metal Oxide		R AA	AA
C1219	VCEASY1CN476MY	47 16V Electrolytic	R		AC	R1101	VRS-CY1JF153FY	15k 1/16W Metal Oxide		R AA	AA
C1220	RC-KZA073WJZZY	10 16V Ceramic	R		AD	R1102	VRS-CY1JF153FY	15k 1/16W Metal Oxide		R AA	AA
C1221	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R1103	VRS-CY1JF393FY	39k 1/16W Metal Oxide		R AA	AA
C1222	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R1104	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
C1223	RC-KZA073WJZZY	10 16V Ceramic	R	AD	AD	R1105	VRS-CY1JF000JY	0 1/16W Metal Oxide		R. AA	AA
C1224	VCCCCY1HH101JY	100p 50V Ceramic	R	AA	AA	R1106	VRS-CY1JF000JY	0 1/16W Metal Oxide		RI AA	AA
C1225	VCCCCY1HH101JY	100p 50V Ceramic	R		AA	R1107	VRS-TV1JD221JY	220 1/10W Metal Oxide		R AA	AA
C1251 C1252	VCEASX1CN107MY VCKYTV1CB105KY	100 16V Electrolytic	R		AC	R1108	VRS-CY1JF393FY	39k 1/16W Metal Oxide		R AA	AA
C1252	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AC AA	R1109	VRS-TV1JD221JY	220 1/10W Metal Oxide		R AA	AA
0 1233	PORTOTIEF 104ZT	U. I ZJY OCIGIIIU	i K	W	- AV	R1110	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
		RESISTORS				R1111	VRS-TW2ED680JY	68 1/4W Metal Oxide		R AA	: AA
R301	VRS-CJ1JF102JY	1k 1/16W Metal Oxide	R	AA	AA	R1112	VRS-TW2ED680JY	68 1/4W Metal Oxide		R AA	AA
R302	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R		AA	R1113	VRS-TW2ED750JY			R AA	AA
R303	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide	R		AA	R1114	VRS-TW2ED750JY	75 1/4W Metal Oxide		R AA	AA
R304	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide	R	AA	AA	R1115	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
R305	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide	R		AA	R1116	VRS-TW2ED750JY			R AA	AA
R306	VRS-CJ1JF472JY	4.7k 1/16W Metal Oxide	R		AA	R1117	VRS-TW2ED750JY			R AA	AA
R307	VRS-CJ1JF104JY	100k 1/16W Metal Oxide	R		AA	R1118	VRS-TW2ED750JY	75 1/4W Metal Oxide		R AA	AA
R308	VRS-CY1JF473JY	47k 1/16W Metal Oxide	R		AA	R1119	VRS-CY1JF101JY	100 1/16W Metal Oxide		R AA	AA
R309	VRS-CY1JF473JY	47k 1/16W Metal Oxide	R		AA	R1120	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
R310	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R	AA	AA	R1121	VRS-TW2ED750JY	75 1/4W Metal Oxide		R AA	AA

REF No.	PARTS	DESCRIPTION		SN CODE	EX CODE		REF No.	PARTS	DESCRIPTION	1		EX CODE
R1123	VRS-TW2ED750JY	75 1/4W Metal Oxide	R	AA	AA		FB1112	RBLN-0051TAZZY	Ferrite Bead	R	AC	AC
R1125	VRS-TW2ED750JY	75 1/4W Metal Oxide	R	AA	AA		FB1201	RBLN-0051TAZZY	Ferrite Bead	R	AC	AC
R1126	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA		FB1202	RBLN-0051TAZZY	Ferrite Bead	R	AC	AC
R1127	VRS-TW2ED750JY	75 1/4W Metal Oxide	R	AA	AA	_	FB1203	RBLN-0062TAZZY	Ferrite Bead	R	AB	AB
R1128	VRS-CY1JF101JY	100 1/16W Metal Oxide	R	AA	AA		FB1204	RBLN-0062TAZZY	Ferrite Bead	R	AB	AB
R1129	VRS-TW2ED750JY	75 1/4W Metal Oxide	R	AA	AA		FB1213	RBLN-0210TAZZY	Ferrite Bead	R	AB	AB
R1130	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA		FB1218	RBLN-0254TAZZY	Ferrite Bead	R	AB	AB
R1131	VRS-CY1JF221JY	220 1/16W Metal Oxide	R	AA	AA				MICCELL AMEQUIC DADTO			
R1134	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R	AA	AA	L	00004	0000707000777	MISCELLANEOUS PARTS	ln!	AE	AE
R1137	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA		SC301	QSOCZ0738CEZZ	Socket	R	AK	AK
R1138	VRS-CY1JF000JY	0 1/16W Metal Oxide	R	AA	AA	_	J1101	QSOCZA116WJZZ	Socket	R		-
R1139	VRS-CJ1JF101JY	100 1/16W Metal Oxide	R	AA	AA	L	J1201	QJAKZA033WJZZ	Jack	R	AK	AK
R1140	VRS-CJ1JF331JY	330 1/16W Metal Oxide	R	AA	AA	L	J1301	QJAKJA007WJZZ	Jack	R	AD	AD
R1141	VRS-CY1JF564JY	560k 1/16W Metal Oxide	R	AA	AA	L	LUG301	QLUGHA009WJZZY	Lug	R	AC	AC
R1142	VRS-CY1JF564JY	560k 1/16W Metal Oxide	R	AA	AA	L	LUG302	QLUGHA009WJZZY	Lug	R	AC	AC
R1143	VRS-CJ1JF272JY	2.7k 1/16W Metal Oxide	R	AA	AA		LUG303	QLUGHA009WJZZY	Lug	R	AC	AC
R1144	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R	AA	AA	L	LUG304	QLUGHA009WJZZY	Lug	R	AC	AC
R1145	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R	AA	AA		P301	QPLGNA173WJZZY	Plug	R	AD	AD
R1146	VRS-TV1JD221JY	220 1/10W Metal Oxide	R	AA	AA		P1101	QCNCMA250WJZZ	Connector	R	AE	AE
R1147	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R		AA		P1102	QCNCMA250WJZZ	Connector	R	AE	AE
		220 1/10W Metal Oxide	R	AA	i AA		P1201	QCNCMA250WJZZ	Connector	R	ΑE	AE
R1148	VRS-TV1JD221JY VRS-CY1JF104JY	100k 1/16W Metal Oxide	R		AA			f Epith	DUNTKD605FM14/03 (LC-32/37GA8/BV8)	- 12		
R1150			R	AA	AA			770	POWER Unit			
R1152	VRS-CJ1JF101JY	100 1/16W Metal Oxide			AA	2.90			**			
R1153	VRS-CY1JF104JY	100k 1/16W Metal Oxide	R			IL.			INTEGRATED CIRCUITS			
R1154	VRS-CY1JF104JY	100k 1/16W Metal Oxide	R		AA		IC704	VHIMR4030++-1	MR4030-7101	R	AR	AR
R1155	VRS-CJ1JF331JY	330 1/16W Metal Oxide	R	-	AA .	П	IC705	VHIMR4020++-1	MR4020-7101	R	AQ	AQ
R1156	VRS-CY1JF564JY	560k 1/16W Metal Oxide	R	_	AA	I	IC706	VHITA76431R-1Y	TA76431FR(TE12L,F)	R	AE	AE
R1157	VRS-CY1JF564JY	560k 1/16W Metal Oxide	R		AA	1	IC707	VHITA76431R-1Y	TA76431FR(TE12L,F)	R	AE	AE
R1158	VRS-CJ1JF272JY	2.7k 1/16W Metal Oxide	R		AA	I	IC708	VHINJM2904M-1Y	NJM2904M-TE1	R	AE	AE
R1159	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R		AA		IC709	VHINJM2903M-1Y	NJM2903M-TE1	R	AE	AE
R1160	VRS-CY1JF102JY	1k 1/16W Metal Oxide	R		AA							
R1173	VRS-CY1JF104JY	100k 1/16W Metal Oxide	R		AA	IL			TRANSISTORS	7		
R1177	VRS-CY1JF102JY	1k 1/16W Metal Oxide	F		AA	IL	Q702	VS2SC3928AR-1Y	2SC3928AR	R		AB
R1179	VRS-CY1JF102JY	1k 1/16W Metal Oxide	F	- AA	AA		Q704	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1201	VRS-CY1JF101JY	100 1/16W Metal Oxide	F	. AA	AA		Q708	VS2SC3928AR-1Y	2SC3928AR	R		AB
R1202	VRS-CY1JF392JY	3.9k 1/16W Metal Oxide	F	AA	AA		Q710	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1203	VRS-CY1JF682JY	6.8k 1/16W Metal Oxide	F	AA	AA		Q712	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1204	VRS-CY1JF750JY	75 1/16W Metal Oxide	F	AA	AA	1	Q713	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1206	VRS-TW2ED750JY	75 1/4W Metal Oxide	F	R AA	AA	11	Q721	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1209	VRS-TW2ED750JY	75 1/4W Metal Oxide		AA S	AA	11	Q723	RH-TXA037WJZZY	TXA037WJ	R	AE	AE
R1210	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	; AA	11	Q724	RH-TXA037WJZZY	TXA038WJ	R	AE	AE
R1211	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	AA	11	Q726	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB
R1212	VRS-CY1JF104JY	100k 1/16W Metal Oxide		R AA	AA	11	Q729	VS2SD2185R+-1Y	2SD2185R	IR		AF
R1213	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	AA	11	Q730	RH-TXA026WJZZY	TXA026WJ	R	AD	AD
R1214	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA	AA	11	Q731	RH-TXA026WJZZY	TXA027WJ	R		
R1215	VRS-CY1JF104JY	100k 1/16W Metal Oxide		R AA	AA	11	4.01	1111 170 10101191191				
		270 1/16W Metal Oxide		R AA	AA	11			DIODES			
R1216	VRS-CY1JF271JY VRS-CY1JF331JY	330 1/16W Metal Oxide		R AA	AA	11	1 D701	RH-DX0477CEZZ	D5SB60	R	AF	AF
R1217		2.7k 1/16W Metal Oxide		R AA	AA	┨┞	D707	VHD1SS355//-1Y	1SS355TE-17	R		AB
R1218	VRS-CY1JF272JY			R AA	AA	1	D714	RH-EX1398CEZZY	UDZSTE-178.2B	R	AB	AB
R1219	VRS-CY1JF271JY	270 1/16W Metal Oxide			-	-	D715	VHDD1FL20U/-1Y	D1FL20U	R		, AC
R1221	VRS-CY1JF331JY	330 1/16W Metal Oxide		R AA	AA AA	11	D716	VHDU05NU44+-1Y	U05NU44(TE12L,Q)	R		_
R1222	VRS-CY1JF272JY	2.7k 1/16W Metal Oxide		R AA		-	D717	VHDD1FL20U/-1Y	D1FL20U	R		
R1224	VRS-CY1JF564JY	560k 1/16W Metal Oxide		R AA	AA	-	D718	RH-EXA091WJZZY	UDZSTE-1711B	R		
R1225	VRS-CY1JF564JY	560k 1/16W Metal Oxide		R AA	AA	41	D720	VHDU05NU44+-1Y		R		
R1226	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA		- -	D721	RH-EXA096WJZZY		R		
R1227	VRS-CY1JF102JY	1k 1/16W Metal Oxide		R AA		4	D722	VHD1SS355//-1Y	1SS355TE-17	F		
R1228	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA	┧┞	D724	VHDD1FL20U/-1Y	D1FI20U	F		
		PERDITE DE LA				1			D1FI20U	F		
<u> </u>	DB111	FERRITE BEAD		n 45	AD.	41	D725	VHDD1FL20U/-1Y				
FB1101	RBLN-0062TAZZY	Ferrite Bead		R AB		4	D726	VHDD1FL20U/-1Y	D1Fi20U	F		
FB1102	RBLN-0062TAZZY	Ferrite Bead		R AB		41	D728	VHEST03D170-1	Zener Diode	F		
FB1103	RBLN-0077TAZZY	Ferrite Bead		R AE		4	D729	VHEST03D170-1	Zener Diode	F		
FB1104	RBLN-0077TAZZY	Ferrite Bead		R AE			↑ D730	RH-FXA003WJZZ	PC123Y82	F		
FB1105	RBLN-0051TAZZY	Ferrite Bead		R AC			D731	RH-FXA003WJZZ	PC123Y82	F		
FB1106	RBLN-0062TAZZY	Ferrite Bead		R AE			D732 D733	RH-FXA003WJZZ	PC123Y82	\rightarrow	R AE	
FB1107	RBLN-0051TAZZY			R AC	: AC		△ D733	RH-FXA003WJZZ	PC123Y82		R A	
FB1108				R AE			⚠ D734	RH-FXA003WJZZ	PC123Y82	F	R AI	
FB1109			-	R A			D735	VHDSF6L20U+-1	SF6L20U	F	R AC	G AG
FB1110				R A			D736	RH-DXA080WJZZ		_	R Al	
ען ווענון ו	I MELL COOK I LET	· OTTHO MONE		R A			D737	RH-DXA081WJZZ	D15SCA4M-7000		R Al	

REF No.	PARTS	DESCRIPTION			EX CODE	REF No.	PARTS	DESCRIPTION		SN CODE	E EX CODE
D738		D1FL40-5063	R	AD	AD	C734	RC-KZA304WJZZ	470p 2kV Ceramic	R		AD
D739		D5S9M-7000	R	AK	AK	C735	RC-EZA489WJZZ+	47 35V Electrolytic	R	AC	AC
D741		UDZSTE-178.2B	R	AB	AB	C736	RC-EZA489WJZZ+	47 35V Electrolytic	R	AC	AC
D742	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C739	VCCCCY1HH102JY	1000p 50V Ceramic	R	AB	AB
D746	RH-EXA102WJZZY	UDZSTE-1733B	R	AB	AB	↑ C740	RC-KZ0105GEZZ	2200p 250V Ceramic	R	AD	AD
D747	VHD1SS355//-1Y RH-EXA094WJZZY	1SS355TE-17	R	AB	AB	↑ C741 ↑ C742	RC-KZ0105GEZZ RC-KZ0105GEZZ	2200p 250V Ceramic	R		AD AD
D748		UDZSTE-1715B	R	AB	AB		RC-RZU1U3GEZZ RC-EZA513WJZZ	2200p 250V Ceramic	R		AD
D749	RH-EX1400CEZZY RH-EX1398CEZZY	UDZSTE-1710B	R	AB	AB	C743		470 50V Electrolytic	R	AH	AH
D751	VHD1SS355//-1Y	UDZSTE-178.2B 1SS355TE-17	R	AB	AB AB	C744 C745	RC-EZA499WJZZ VCKYCY1HB472KY	330 25V Electrolytic 4700p 50V Ceramic	R	AH	AH
4-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	RH-EXA094WJZZY	UDZSTE-1715B	R	AB AB	AB	C749	VCKYTV1HB683KY	0.068 50V Ceramic	R	AA AB	AA AB
D753 D754	RH-EXAU94VVJZZY	UDZSTE-1730B	R	AB	AB	C751	RC-EZA499WJZZ	330 25V Electrolytic	R		AH
D754	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C752	RC-EZA459VVJZZ	2200 10V Electrolytic	R		AG
D756	RH-EXA101WJZZY	UDZSTE-1730B	R	AB	AB	C753	VCKYTV1HB683KY	0.068 50V Ceramic	R		AB
D757	VHD1SS355//-1Y	1\$\$355TE-17	R	AB	AB	C754	RC-EZA510WJZZ	220 50V Electrolytic	R		AF
D759		UDZSTE-1730B	R	AB	AB	C755	RC-EZA499WJZZ	330 25V Electrolytic	R		AH
D761	VHDD1FL20U/-1Y	D1FL20U	R	AC	AC	C756	RC-EZA452WJZZ	2200 10V Electrolytic	R		AG
D762	VHEST03D170-1	ZENER DIODE	R	AG	AG	C757	RC-EZA480WJZZ	680 25V Electrolytic	R		AD
D763	RH-EX1394CEZZY	ZENER DIODE, 5.6V	R	AB	AB	C758	RC-EZA490WJZZ+	100 35V Electrolytic	R		AD
D765	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C762	RC-EZA513WJZZ	470 50V Electrolytic	R		AH
D767	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C763	VCKYCY1HB104KY	0.1 50V Ceramic	R	AA	AA
D771	VHEST03D-82-1	ZENER DIODE	R	AG	AG	C764	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA
D772	RH-EXA102WJZZY	UDZSTE-1733B	R	AB	AB	C765	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA
D773	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C767	RC-EZA510WJZZ	220 50V Electrolytic	R		AF
D774	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C768	RC-EZA452WJZZ	2200 10V Electrolytic	R		AG
D775	VHD1SS355/I-1Y	1SS355TE-17	R	AB	AB	C771	VCKYCY1HB272KY	2700p 50V Ceramic	R		AA
D776	RH-EX1234CEZZY	ZENER DIODE, 3.6V	R	AE	AE	C772	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA
D777	VHDU05NU44+-1Y	U05NU44(TE12L,Q)	R	AE	AE	C774	VCKYCY1CB104KY	0.1 16V Ceramic	R		AB
D778	VHDU05NU44+-1Y	U05NU44(TE12L,Q)	R	AE	AE	C776	RC-KZA213WJZZY	4.7 25V Ceramic	R		AC
D779	VHD1SS355//-1Y	1SS355TE-17	R	AB	AB	C777	RC-KZ0105GEZZ	2200p 250V Ceramic	R		AD
D780	RH-EX1015GEZZY	PTZTE2516B	R	AD	AD	C778	RC-KZ0105GEZZ	2200p 250V Ceramic	R		AD
D781	RH-EX1015GEZZY	PTZTE2516B	R		AD	C781	VCFYAA2JA103K+	0.01 630V Capacitor	R		AC
D782	RH-EXA359WJZZY	PTZTE25338	R	AE	AE	C782	VCFYAA2JA103K+	0.01 630V Capacitor	R		AC
D783	RH-EXA359WJZZY	PTZTE2533B	R	AE	AE	C783	RC-KZA213WJZZY	4.7 25V Ceramic	R		AC
	1012000000		1,31		1 1 2	C789	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA
		COILS AND TRANSFORMERS				C790	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA
L701	RCILFA211WJZZ	Coil	R		AG	C792	VCKYCY1AB105KY	1 10V Ceramic	R	AB	AB
L702	RCILF0024PEZZ	Coil	R	AN	AN	C793	VCKYCY1CB104KY	0.1 16V Ceramic	R	AB	AB
<u> 1753</u> L753	RCILPA642WJZZ	Coil	R	AE	AE	C794	RC-KZA388WJZZY	10 6.3V Ceramic	R	AC	AC
L753	RCILPA642WJZZ	Coil	R			C795	VCKYCY1AB105KY	1 10V Ceramic	R	AB	AB
T701	RTRNWA230WJZZ	Transformer	R	AP	AP	C796	VCKYCY1AB105KY	1 10V Ceramic	R		AB
T702	RTRNWA231WJZZ	Transformer	R	AR	AR	C798	VCKYCY1CB104KY	0.1 16V Ceramic	R	AB	AB
T703	RTRNCA022WJZZ	Choke Transformer	R	AW	AW	C799	VCKYCY1CB104KY	0.1 16V Ceramic	R	AB	AB
		(LC-32GA8E/RU, LC-32BV8E/RU)			-	C800	VCKYCY1CB104KY		R	AB	AB
T703	RTRNCA023WJZZ	Choke Transformer	R	AW	AW	C801	VCKYCY1CB104KY	0.1 16V Ceramic	R		AB
		(LC-37GA8E/RU, LC-37BV8E/RU)				C804	VCKYCY1CB104KY	0.1 16V Ceramic	R	AB	AB
		CAPACITORS						DESISTANS			
1 C704	RC-FZA026WJZZ	0.47 275V Film	R	AE	AE		RR-HZ0008GEZZY	RESISTORS	1-	A.F.	45
C705	RC-EZA985WJZZ	Capacitor	R	AR	AR	↑ R702		Resistor	F		AE
0100	NO-EENDOUTFULL	(LC-32GA8E/RU, LC-32BV8E/RU)	l l	νU	T/\		RR-HZ0008GEZZY	Resistor	F		AE
C706	RC-EZA985WJZZ	Capacitor	R	AR	AR	R727 R730	VRS-TV1JD563JY VRS-TQ2EF124FY	56k 1/10W Metal Oxide 120k 1/4W Metal Oxide	F		AA
0700	10-12-130011022	(LC-32GA8E/RU, LC-32BV8E/RU)	- 11	/III	701	1 —				_	AA
C706	RC-EZA986WJZZ	Capacitor	R	AT	AT	R731 R732	VRS-TQ2EF124FY VRS-TQ2EF124FY	120k 1/4W Metal Oxide 120k 1/4W Metal Oxide	F		AA
5,00	NO LE WOUTTULL	(LC-37GA8E/RU, LC-37BV8E/RU)	IV.	Л	AI.	R740	VRS-TV1JD564JY	560k 1/10W Metal Oxide	F		AA AA
C708	RC-KZ0105GEZZ	2200p 250V Ceramic	R	AD	AD	R740	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F		AA AA
	RC-KZ0105GEZZ	2200p 250V Ceramic	R		AD	R741	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F		AA AA
C712	RC-FZA026WJZZ	0.47 275V Film	R		AE	R743	VRS-CY1JF224JY	220k 1/16W Metal Oxide	F	_	AA
C713	RC-KZA388WJZZY	10 6.3V Ceramic	R		AC	R745	VRS-TV1JD912JY	9.1k 1/10W Metal Oxide	F		AA
C716	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA	R746	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F		AA
C717	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA	R747	VRS-TV1JD10331	10k 1/10W Metal Oxide	F	+	AA AA
C720	VCKYCY1HB104KY	0.1 50V Geramic	R		AA	R748	VRS-TV1JD103JY	10k 1/10W Metal Oxide		-	AA
C722	VCCCCY1HH470JY	47p 50V Ceramic	R		AA	R751	VRN-VV3DBR10J	0.1 2W Metal Film	F		AB
C723	RC-EZA489WJZZ+	47 35V Electrolytic	R		AC	R752	VRS-TV1JD000JY	0.1/10W Metal Oxide	F		AA
C725	RC-KZA304WJZZ	470p 2kV Ceramic	R		AD	R753	VRS-TV1JD133JY	13k 1/10W Metal Oxide	F		AA
C726	VCCCCY1HH101JY	100p 50V Ceramic	R		AA	R755	VRS-TV1JD203FY	20k 1/10W Metal Oxide	F		- AA
C728	VCKYCY1HB332KY	3300p 50V Ceramic	R		AA	R756	VRS-TV1JD183FY	18k 1/10W Metal Oxide			AA
	VCKYCY1HB104KY	0.1 50V Ceramic	R		AA	R757	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F		AA
(2730		V. I VOT VUIUMU	111		- FVT	INTO		TON II IVIT INICIAI UNIUC	ļ r	NA NA	
C730	VCKYCY1HB104KY	0.1 50V Ceramic	R	AA	AA	R758	VRS-TV1JD564JY	560k 1/10W Metal Oxide	F	AA S	. AA

EF No.	PARTS	DESCRIPTION		SNO	CODE	EX CODE	REF No.	PARTS	DESCRIPTION	* S	N CODE	EX COL
760	VRN-VV3DBR15J	0.15 2W Metal Film	R		AB.	AB			TERMINA			
761	VRS-TV1JD103JY	10k 1/10W Metal Oxide	R	A	W	AA	20724	100001100011177	TERMINAL		45	AF
764	VRS-TV1JD103JY	10k 1/10W Metal Oxide	R	P	VA.	AA	SC701	QSOCAA008WJZZ	AC INPUT Terminal	R	AE	AE
765	VRS-TV1JD104JY	100k 1/10W Metal Oxide	R	F	NA.	AA			THERMISTOR			
766	VRS-TV1JD103JY	10k 1/10W Metal Oxide	R	1	AA	AA	TH701	RH-HXA033WJZZ	Thermistor	R	AG	AG
767	VRS-TQ2EF391JY	390 1/4W Metal Oxide	R	1	AA.	AA	111701	IN IS INNOUSTIBLE	THORNIAGO	I.V.	710	710
770	VRS-TQ2BD000JY	0 1/8W Metal Oxide	R	1	AA	AA			VARISTOR			
773	VRS-TV1JD103JY	10k 1/10W Metal Oxide	R		AA	AA	VA701	RH-VXA071WJQZ	ERZV10D471CS	Ri	AD	AD
R774	VRS-TV1JD103JY	10k 1/10W Metal Oxide	R		AA	AA	VA702	RH-VXA071WJQZ	ERZV10D471CS	R	AD	AD
1775	VRS-TV1JD153FY	15k 1/10W Metal Oxide	R		AA	AA	TAIVE	IN PROTOT ITTO QL	ENET TOP TO TO	1 **1		
	VRS-TV1JD102JY	1k 1/10W Metal Oxide	R		AA	AA			MISCELLANEOUS PARTS	3		
776			R		AA	AA	/\ F701	QFS-ZA007WJZZ	Fuse	R	AC	AC
777	VRS-TV1JD242FY	2.4k 1/10W Metal Oxide		_		AA	E701	LANGQA027WJFW	Fixing Metal	R	AE	AE
778	VRS-TV1JD242FY	2.4k 1/10W Metal Oxide	F	_	AA	-	LUG701	QLUGHA002WJZZ	Lug	R	AB	AE
779	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F		AA	AA	LUG702	QLUGHA002WJZZ	Lug	R	AB	AE
7780	VRS-TV1JD682JY	6.8k 1/10W Metal Oxide	F	_	AA	AA	LUG702	QLUGHA002WJZZ		R	AB	AE
7781	VRS-TV1JD242FY	2.4k 1/10W Metal Oxide	F		AA	AA			Lug		AB	AE
782	VR\$-TV1JD102JY	1k 1/10W Metal Oxide	F	_	AA	AA	LUG704	QLUGHA002WJZZ	Lug	R		
783	VRS-TV1JD223JY	22k 1/10W Metal Oxide	F	?	AA	AA	P701	QCNCMA250WJZZ	Connector, 23-pin	R	AE	A
784	VRS-TV1JD242JY	2.4k 1/10W Metal Oxide	F	3	AA	AA	P702	QCNCMA247WJZZ	Connector, 9-pin	R	AD	A
785	VRS-TV1JD103JY	10k 1/10W Metal Oxide	F	3	AA	AA	P703	QPLGZ0738CEZZ	Plug, 7-pin	R	AC	A
787	VRS-TV1JD103JY	10k 1/10W Metai Oxide			AA	AA	P704	QPLGNA053WJZZ	Plug, 14-pin(LA)	R	AF	A
788	VRS-TV1JD202FY	2.0k 1/10W Metal Oxide			AA	AA	MISCELLA	NEOUS PARTS				1
789	VRS-TV1JD681FY	680 1/10W Metal Oxide			AA	AA	RDA701	PRDARA323WJFW	Heat Sink	R	AG	A
	VRS-TV1JD001F1	10k 1/10W Metal Oxide			AA	AA	RDA702	PRDARA306WJFW	Heat Sink	R	AG	A
791		2.7k 1/10W Metal Oxide			AA	AA	RDA703	PRDARA307WJFW	Heat Sink	R	AK	A
792	VRS-TV1JD272JY						11.0711100		(LC-32GA8E/RU, LC-32BV8E/RU)			
793	VRS-TV1JD103JY	10k 1/10W Metal Oxide		_	AA	AA	RDA703	PRDARA340WJFW	Heat Sink	R	AL	1
794	VRS-TV1JD821FY	820 1/10W Metal Oxide			AA	AA	INDAFOO	110/1101010101111	(LC-37GA8E/RU, LC-37BV8E/RU)	- 1		+ '
795	VRS-TV1JD203FY	20k 1/10W Metal Oxide		_	AA	. AA	RDA704	PRDARA308WJFW	Heat Sink	R	AH	I
796	VRS-TV1JD272JY	2.7k 1/10W Metal Oxide			AA	AA				R	AH	
797	VRS-TV1JD104FY	100k 1/10W Metal Oxide		_	AA	AA	RDA705	PRDARA309WJFW	Heat Sink		AF	1
801	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide		R	AA	AA	RDA706	PRDARA334WJFW	Heat Sink	R	Ar	- '
805	VRS-TV1JD224JY	220k 1/10W Metal Oxide		R	AA	AA			(LC-37GA8E/RU, LC-37BV8E/RU)			
R809	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide		R	AA	. AA		LX-BZ3049GEF7	Screw, x7	R	AA	- 1
R812	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide		R	AA	AA		XBSSN30P06000	Screw	R	AA	1
R817	VRS-TQ2EF122JY	1.2k 1/4W Metal Oxide		R	AA	AA			(LC-37GA8E/RU, LC-37BV8E/RU)			
R820	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide		R	AA	AA		Allen in	DUNTKD606FMV0			
R823	VRS-TV1JD103JY	10k 1/10W Metal Oxide		R	AA	AA			KEY Unit			
R824	VRS-TQ2EF332JY	3.3k 1/4W Metal Oxide		R	AA	AA						
	VRS-102EF332JT											
R825	LIDO TUA IDAGO IV								DIODES			
	VRS-TV1JD103JY	10k 1/10W Metal Oxide		R	AA	AA	D151	RH-EX0641GEZZY	MTZJT-7212C	R	AA	
R828	VRS-TQ2EF220JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide		R R	AA AA	AA AA	D151	RH-EX0641GEZZY	MTZJT-7212C	R	AA	1
R828 R831	VRS-TQ2EF220JY VRS-TV1JD103JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide		R R R	AA AA AA	AA AA AA			MTZJT-7212C RESISTORS			
R828 R831 R833	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide		R R R	AA AA AA	AA AA AA	R151	VRD-RA2BE 182JY	MTZJT-7212C RESISTORS 1.8k 1/8W Carbon	R	AA	
R828 R831 R833	VRS-TQ2EF220JY VRS-TV1JD103JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide		R R R	AA AA AA AA	AA AA AA AA			MTZJT-7212C RESISTORS		AA	
R828 R831 R833 R834	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide		R R R R	AA AA AA AA AA	AA AA AA AA AA	R151	VRD-RA2BE 182JY	MTZJT-7212C RESISTORS 1.8k 1/8W Carbon	R R R	AA	
R828 R831 R833 R834 R835	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide		R R R R R	AA AA AA AA	AA AA AA AA	R151 R152	VRD-RA2BE182JY VRD-RA2BE431JY	MTZJT-7212C RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon	R	AA	
R828 R831 R833 R834 R835 R836	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide		R R R R	AA AA AA AA AA	AA AA AA AA AA	R151 R152 R153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon	R R R	AA AA	
R828 R831 R833 R834 R835 R836 R851	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide		R R R R R	AA AA AA AA AA	AA AA AA AA	R151 R152 R153 R155	VRD-RA2BE 182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon	R R R	AA AA	
R828 R831 R833 R834 R835 R836 R851	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide		R R R R R R	AA AA AA AA AA AA AA	AA AA AA AA AA AA	R151 R152 R153 R155	VRD-RA2BE 182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon	R R R R	AA	
R828 R831 R833 R834 R835 R836 R851 R852 R854	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VV3DB102J	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide		R R R R R R R	AA AA AA AA AA AA AA	AA AA AA AA AA AA AA	R151 R152 R153 R155	VRD-RA2BE 182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon	R R R	AA AA AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VV3DB102J VRS-TQ2BD000JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide		R R R R R R R R	AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon	R R R R	AA AA AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R857	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VV3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide		R R R R R R R R R	AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (Ú) Programm/Channel/ (Ú)	R R R R	AA AA AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VV3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (Ü) Input	R R R	AA AA AB AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VV3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF472JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+)	R R R R R R R R R R R R R	AA AA AB AB AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide		R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 9to 1/8W Carbon 9to 1/8W Carbon SWITCHES Programm/Channel/ (U) Input Volume (+) Volume (-)	R R R R R R R R R R R R R	AA AB AB AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF172JY VRS-CY1JF272JY VRS-CY1JF272JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+)	R R R R R R R R R R R R R	AA AB AB AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R863	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power	R R R R R R R R R R R R R R R R R R R	AA AB AB AB AB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R863	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF172JY VRS-CY1JF272JY VRS-CY1JF272JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (ii) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR	R R R R R R R R R R R R R R R R R R R	AA AB AB AB AB AF	
2828 2831 2833 2834 2835 2836 2835 2835 2835 2855 2855 2855 2855 2855	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (ii) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR	R R R R R R R R R R	AA AB AB AB AB AF	
2828 2831 2833 2834 2835 2836 2835 2835 2835 2835 2835 2857 2857 2858 2859 2860 2860 2860 2860 2860 2860 2860 2860	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF172JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF3733JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon	R R R R R R R R R R	AA AB AB AB AB AF	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R863 R864 R865 R866	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TQ2BD000JY VRS-TQ1D103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF172JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF373JY VRS-CY1JF373JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (ii) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR	R R R R R R R R R R	AA AB AB AB AB AF	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R860 R861 R862 R863 R864 R865 R866 R865	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TQ2BD000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-V3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF333JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide 47k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (Ü) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit	R R R R R R R R R R R R R R R R R R R	AA AB AB AB AB AF	
R828 R831 R833 R834 R835 R856 R851 R852 R858 R859 R860 R861 R862 R863 R864 R865 R866 R866 R866 R866	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TQ2BD000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-VY3DB102J VRS-TQ2BD000JY VRS-TV1JD272JY VRS-CY1JF123JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF272JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF333JY VRS-CY1JF33JY VRS-CY1JF33JY VRS-CY1JF33JY VRS-CY1JF33JY VRS-CY1JF123JY VRS-CY1JF123JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 12k 1/16W Metal Oxide 12k 1/16W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-R0003AJZZ+ QSW-R0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (ii) Programm/Channel/ (iii) Input Volume (-) Power MISCELLANEOUS PAF Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI	R R R R R R R R R R R R R R R R R R R	AA AA AB AB AB AAB AAB AAB AAB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R865 R866 R867 R868 R869 R866 R867 R868 R869 R866 R866 R867 R868 R869 R868	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2BD000JY VRS-TQ2BD000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2BD000JY VRS-TQ1D2F22JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF123JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/10W Metal Oxide 2.7k 1/10W Metal Oxide 12k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 12k 1/16W Metal Oxide 12k 1/16W Metal Oxide 33k 1/16W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (Ü) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit	R R R R R R R R R R R R R R R R R R R	AA AA AB AB AB AAB AAB AAB AAB	
R828 R831 R833 R834 R835 R836 R836 R851 R852 R854 R857 R858 R858 R860 R861 R862 R863 R864 R865 R866 R867 R868	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2ED000JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 2.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 12k 1/16W Metal Oxide 17k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE481JY VRD-RA2BE822JY VRD-RA2BE482JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-R0003AJZZ+ QSW-R0003AJZZ+	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI	R R R R R R R R R R R R R R R R R R R	AA AA AB AB AB AAB AAB AAB AAB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R866 R867 R868 R869 R870 R870 R871	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1JF123JY VRS-CY1JF123JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY VRS-CY1JF122JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 1k 2W Metal Oxide 2.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide 12k 1/16W Metal Oxide 33k 1/16W Metal Oxide 33k 1/16W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F00035GEZZ QPLGNA057WJZZ	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES	R R R R R R R R R R	AAA ABABABABAABAABAABAABAABAABAABAABAABA	
R828 R831 R833 R834 R835 R836 R836 R851 R852 R854 R857 R858 R869 R860 R861 R862 R863 R866 R867 R868 R869 R870 R871 R872	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2ED000JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF122JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 1.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 1.2k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156 P153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F0003AJZZ- VBW-F0003AJZZ- VHITPS850++-1Y	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES	R R R R R R R R R R	AAA AAA AAA AAB AAB AAB AAB AAB AAB AAB	
R828 R831 R833 R834 R835 R836 R851 R852 R854 R857 R858 R869 R860 R861 R862 R863 R864 R867 R868 R869 R870 R871 R872 R873	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2ED000JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF122JY VRS-CY1JF472JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 3.3k 1/16W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156 P153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F0003AJZZ- VRH-F0003AJZZ- RH-EXA092WJZZ RH-PX020ZTAZZY RH-PX020ZTAZZY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAR Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES (UDZSTE-1712B OPC Indication	R R R R R R R R R R	AA AA AB AB AB AB AAB AAB AAB AAB AAB A	
R828 R831 R833 R834 R835 R836 R836 R851 R852 R854 R857 R858 R859 R860 R861 R862 R863 R864 R865 R866 R867 R868 R869 R870 R871 R872 R873	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2ED000JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1D102J VRS-TQ1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF473JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF123JY VRS-CY1JF122JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 0 1/8W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 1k 2W Metal Oxide 0 1/8W Metal Oxide 0 1/8W Metal Oxide 2.7k 1/16W Metal Oxide 12k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 3.3k 1/16W Metal Oxide 12k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156 P153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F0003AJZZ- QSW-F0003AJZZ- RH-PX020ZTAZZY RH-PX020ZTAZZY RH-PX0210TAZZY RH-PX0210TAZZY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAF Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES (UDZSTE-1712B	R R R R R R R R R R	AAA ABABABABABAAGAAGAAGAAGAAGAAGAAAAAAAA	
R828 R831 R833 R834 R835 R836 R836 R851 R852 R854 R857 R858 R869 R860 R861 R862 R863 R866 R867 R868 R869 R870 R871 R872	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2ED000JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF122JY VRS-CY1JF472JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 200 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 20 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 1.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156 P153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F0003AJZZ- VRH-F0003AJZZ- RH-EXA092WJZZ RH-PX020ZTAZZY RH-PX020ZTAZZY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAF Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES (UDZSTE-1712B	R R R R R R R R R R	AAA ABABABABABAAGAAGAAGAAGAAGAAGAAAAAAAA	
8828 8831 8833 8834 8835 8836 8855 8855 8855 8857 8858 8859 8860 8861 8862 8863 8866 8866 8866 8867 8868 8869 8870 8871 8872 8873 8873	VRS-TQ2EF220JY VRS-TV1JD103JY VRS-TQ2EF223FY VRS-TV1JD103JY VRS-TQ2EF223JY VRS-TQ2ED000JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-TQ2EF221JY VRS-CY1JF123JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF472JY VRS-CY1JF473JY VRS-CY1JF472JY	10k 1/10W Metal Oxide 22 1/4W Metal Oxide 10k 1/10W Metal Oxide 22k 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 10k 1/10W Metal Oxide 200 1/4W Metal Oxide 220 1/4W Metal Oxide 220 1/4W Metal Oxide 20 1/4W Metal Oxide 10k 1/10W Metal Oxide 10k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide 3.7k 1/16W Metal Oxide 4.7k 1/16W Metal Oxide 1.7k 1/16W Metal Oxide		R R R R R R R R R R R R R R R R R R R	AA AA AA AA AA AA AA AA AA AA	AA	R151 R152 R153 R155 R156 S151 S152 S153 S154 S155 S156 P153	VRD-RA2BE182JY VRD-RA2BE431JY VRD-RA2BE822JY VRD-RA2BE432JY VRD-RA2BE911JY QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-K0003AJZZ+ QSW-F0003AJZZ- QSW-F0003AJZZ- RH-PX020ZTAZZY RH-PX020ZTAZZY RH-PX0210TAZZY RH-PX0210TAZZY	RESISTORS 1.8k 1/8W Carbon 430 1/8W Carbon 8.2k 1/8W Carbon 4.3k 1/8W Carbon 4.3k 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon 910 1/8W Carbon SWITCHES Programm/Channel/ (i) Programm/Channel/ (U) Input Volume (+) Volume (-) Power MISCELLANEOUS PAF Plug, 3-pin (KM) DUNTKD607FMV0 R/C, LED Unit INTEGRATED CIRCUI TPS850 DIODES (UDZSTE-1712B	R R R R R R R R R R	AAA ABABABABABAAGAAGAAGAAGAAGAAGAAAAAAAA	

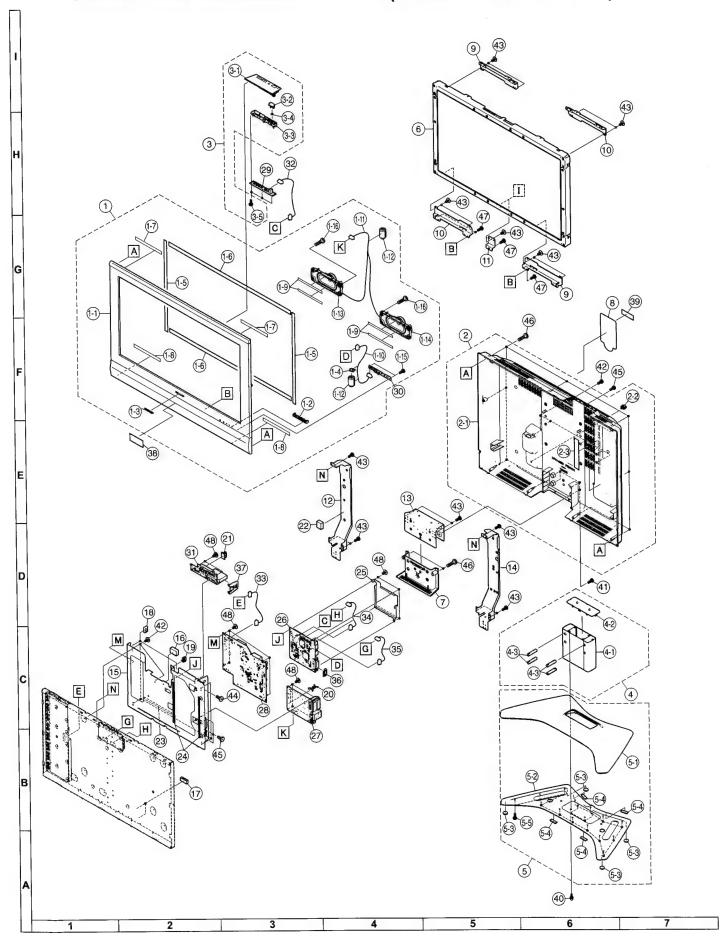
REF No.	PARTS	DESCRIPTION			EX CODE	REF No.	PARTS	DESCRIPTION		SN CODE	
C102	VCKYTV1CF225ZY	2.2 16V Ceramic	R	AB	AB	C227	VCKYCY1HF103ZY	0.01 50V Ceramic	R		AA
C104 C105	VCEASX1CN106MY VCKYCY1HF103ZY	10 16V Electrolytic 0.01 50V Ceramic	R	AC AA	AC AA	C228 C229	VCKYTV1CB474KY VCCCCY1HH120JY	0.47 16V Ceramic 12p 50V Ceramic	R		AC AA
0100	VORTO I INF 10321	U.UT JUV GELAING		MA	- ^^	C230	VCESKA1HM106M+	10 50V Electrolytic	R		- AA
		RESISTORS				C231	VCKYCY1HF103ZY	0.01 50V Ceramic	R		AA
R101	VRS-CY1JF101JY	100 1/16W Metal Oxide	;R	AA	AA	C232	VCCCCY1HH330JY	33p 50V Ceramic	R		AA
R108	VRS-CY1JF271JY	270 1/16W Metal Oxide	R	AA	AA	C233	VCKYCY1HB102KY	1000p 50V Ceramic	R	AA	AA
R109	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	R	AA	AA	C234	VCKYCY1EF104ZY	0.1 25V Ceramic	R		AA
R112 R114	VRS-CY1JF471JY VRS-CY1JF821JY	470 1/16W Metal Oxide	R	AA AA	AA AA	C235	VCKYCY1HB103KY	0.01 50V Ceramic	R		AA
K114	VK3-01 IJF02 IJ1	020 I/TOW Metal Oxide	!n:	AA	AA	C236	VCCCCY1HH8R0DY	8p 50V Ceramic	R	AA	AA
		MISCELLANEOUS PART						RESISTORS			
P101	QPLGNA344WJZZY	Plug, 5-pin (RA) AD	R			R201	VRS-CY1JF104JY	100k 1/16W Metal Oxide	R	AA	AA
RMC101	RRMCUA053WJZZ	Remote Receiver	R	AE AD	AE	R202	VRS-CY1JF681JY	680 1/16W Metal Oxide	F		AA
SLD101	PSLDM4646CEFW	Shield CKITKD608FM02	R	AU	AD	R203	VRS-CY1JF683JY	68k 1/16W Metal Oxide	R		AA
		TUNER Unit				R204	VRS-CY1JF123JY	12k 1/16W Metal Oxide	R		AA
		TUILLISUIK				R205 R206	VRS-CY1JF473JY VRS-CY1JF000JY	47k 1/16W Metal Oxide 0 1/16W Metal Oxide	R		AA AA
		INTEGRATED CIRCUIT				R207	VRS-CY1JF470JY	47 1/16W Metal Oxide	R		AA
IC201	VHITDA9886+-1Y	TDA9886TS/V4	,R			R208	VRS-CY1JF470JY	47 1/16W Metal Oxide	R		AA
		TRANSISTORS				R209	VRS-CY1JF123JY	12k 1/16W Metal Oxide	R		AA
Q201	VS2SC2735//1EY	2SC2735	R	AC	AC	R210	VRS-CY1JF680JY	68 1/16W Metal Oxide	R	AA	AA
Q202	VS2SC2735//1EY	2SC2735	R	AC	AC	R211	VRS-CY1JF680JY	68 1/16W Metal Oxide	R		AA
Q203	VS2SC3928AR-1Y	2SC3928AR	R	AB	AB	R212	VRS-CY1JF101JY	100 1/16W Metal Oxide	R		AA
Q204	VS2SA1530AR-1Y	2SA1530AR	R	AB	AB	R213 R214	VRS-CY1JF101JY VRS-CY1JF820JY	100 1/16W Metal Oxide 82 1/16W Metal Oxide	R		AA AA
		DIODES				R214	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	. F		AA
D201	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	R216	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	F		AA
D202	RH-EX0677GEZZY	MTZJT-7233D	R	AC	AC	R217	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	F		AA
D203	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	R218	VRS-CY1JF122JY	1.2k 1/16W Metal Oxide	F		AA
D204	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	R219	VRS-CY1JF222JY	2.2k 1/16W Metal Oxide	F		AA
D205	VHD1SS390++-1Y	1SS390TE61	¦R	AB	AB	R220	VRS-CY1JF392JY	3.9k 1/16W Metal Oxide	F		AA
D206	VHD1SS390++-1Y	1SS390TE61	R	AB	AB	R221	VRS-CY1JF392JY	3.9k 1/16W Metal Oxide	F		AA
!		COILS AND FILTERS				R223	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide	F		AA
L201	VPCNN1R2JR58NY	Peaking 1.2µ	R	AB	AB	R224 R226	VRS-CY1JF562JY VRS-CY1JF103JY	5.6k 1/16W Metal Oxide	F		AA AA
L202	VPCNN1R2JR58NY	Peaking 1.2µ	R	AB	AB	R227	VRS-CY1JF103JY	10k 1/16W Metal Oxide	F		AA
L203	VP-MK100J0000+	Peaking 10µ	.R			R228	VRS-CY1JF223JY	22k 1/16W Metal Oxide	F		AA
L204	VP-MK120J0000+	Peaking 12µ	R			R229	VRS-CY1JF223JY	22k 1/16W Metal Oxide	F		AA
L205 FL201	VPCNN330J4R2NY RFILC0278BMZZ	Peaking 33µ Filter	R R	AM	AM	R230	VRS-CY1JF562JY	5.6k 1/16W Metal Oxide	F	R AA	AA
FL202	RFILC0276BWZZ	Filter	R	AIVI	AIVI	R231	VRS-TQ2BD330JY	33 1/8W Metal Oxide	F		AA
1 1202	IN ILOUZSADIVIZZ	I IICI	IN			R232	VRS-CY1JF331JY	330 1/16W Metal Oxide	F		AA
		CAPACITORS				R233	VRS-CY1JF821JY VRS-CY1JF271JY	820 1/16W Metal Oxide	F		AA
C201	VCESKA1AM336M+	33 10V Electrolytic	R		4.	R234 R235	VRS-CY1JF101JY	270 1/16W Metal Oxide	F	AA S	AA
C202	VCCCCY1HH220JY	22p 50V Ceramic	R	AA	AA	R236	VRS-CY1JF101JY	100 1/16W Metal Oxide	F		AA
C203	VCCCCY1HH220JY VCESKA1CM477M+	22p 50V Ceramic 470 16V Electrolytic	R	AA AD	AA AD	R237	VRS-CY1JF331JY	330 1/16W Metal Oxide	F		AA
C204	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R238	VRS-CY1JF151JY	150 1/16W Metal Oxide	F		AA
C206	VCESKA1CM107M+	100 16V Electrolytic	R	AC	AC	R239	VRS-CY1JF101JY	100 1/16W Metal Oxide	F	AA S	AA
C207	VCESKA1HM106M+	10 50V Electrolytic	R			R240	VRS-CY1JF331JY	330 1/16W Metal Oxide	F		AA
C208	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R241	VRS-CY1JF103JY	10k 1/16W Metal Oxide	F		AA
C209	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R242 R243	VRS-CY1JF392JY VRS-CY1JF101JY	3.9k 1/16W Metal Oxide 100 1/16W Metal Oxide	F		AA
C210	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R243	VRS-CY1JF101JY	220 1/16W Metal Oxide	F		AA AA
C211	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	R245	VRS-TW2ED561JY	560 1/4W Metal Oxide	i l		AA
C212 C213	VCKYCY1HF103ZY VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA AA	AA AA	R246	VRS-CY1JF331JY	330 1/16W Metal Oxide		R AA	AA
C214	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	RJ1	VRS-CY1JF000JY	0 1/16W Metal Oxide	F	R AA	AA
C215	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	RJ2	VRS-CY1JF000JY	0 1/16W Metal Oxide	F	R AA	AA
C216	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	RJ3	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
C217	VCESKA1HM106M+		R			RJ4	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
C218	VCKYCY1HB103KY	0.01 50V Ceramic	R	AA	AA	RJ5	VRS-CY1JF000JY	0 1/16W Metal Oxide		R AA	AA
C219	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA			FERRITE BEAD			
C220	VCKYCY1HF103ZY	0.01 50V Ceramic	R	AA	AA	FB201	RBLN-0210TAZZY	Ferrite Bead		R AB	AB
C221	VCESKA1CM107M+		R	AC	AC	FB202	RBLN-0065CEZZY	Ferrite Bead		R AC	AC
C222 C223	VCKYCY1EF104ZY	0.1 25V Ceramic	R	AA	AA			MOOFILANTON BARTO			
C223	VCCCCY1HH391JY VCKYTV1CB224KY	390p 50V Ceramic	R R	AB AB	AB AB	LUG201	QLUGHA002WJZZ	MISCELLANEOUS PARTS	T	מאוכ	AD
C225	VCKYCY1HB152KY	1500p 50V Ceramic	R	AA	AA	LUG201	QLUGHA002WJZZ	Lug Lug		R AB	AB AB
	VCESKA1AM227M+		R	AD	AD	LUG203	QLUGHA002WJZZ	Lug		R AB	AB

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODI
	P201	QCNCMA012WJZZ	Connector, 15-pin	R	AD	AD
			TUNER			
M	TU1101	RTUNQA021WJZZ	Tuner	S	AH	AT
			CRYSTAL			
	X201	RCRSAA029WJZZ	Crystal	R	AF	AF
			MISCELLANEOUS PARTS			
		LHLDW1072GEZZ	Wire Holder, x1	į R	AA	AA
Г	1	PSLDMA898WJFW	Shield	R		

CABINET AND MECHANICAL PARTS LISTING							
	(LC-32GA8E	E/EK/EF/EI/RU LC-32BV8EE/	EK/E	F/El/RU)			
REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CO		
1	CCABAB439WJ01	Cabinet A Ass'y (LC-32GA8)	S				
1	CCABAB439WJ02	Cabinet A Ass'y (LC-32BV8)	S				
1_1	Not Available	Cabinet A	- :				
1_2	GCOVAB478WJSA	R/C, LED Cover	S				
1_3	HBDGBA056WJSA	Badge, "SHARP"	S	2.5			
1_4	LHLDW1033PEZZ	Wire Holder, x1	R	AA	AA		
1_5	PSPAHA607WJZZ	Mask Spacer, x2	S				
1_6	PSPAHA608WJZZ	Mask Spacer, x2	S				
1_7	PSPAHA786WJZZ	Spacer, x2	S				
1_8	PSPAHA790WJZZ	Spacer, x2 Spacer for Speaker, x4	S				
1_9 1_10	PSPAZB211WJZZ QCNW-E233WJQZ	Connecting Cord	S		-		
1_10	QCNW-E233WJQZ QCNW-E800WJQZ	Connecting Cord	S				
-				Al/	AV		
1_12	RCORF0103CEZZ RSP-ZA184WJN1	Core, x2 Speaker, (L)	R	AK	AK		
1_13	RSP-ZA184WJN1 RSP-ZA184WJN2	Speaker, (L) Speaker, (R)	S				
1_14	XEBS930P08000	Speaker, (K) Screw, x2	R	AA	A.A.		
1_15	LX-HZA003WJFN	Screw, x2	R		AA		
1_10	LA-TIZAUUSVVJF N	JUICW, XZ	, K	AC	AU		
2	CCABBA861WJ01	Cabinet B Ass'y	S				
2_1	Not Available	Cabinet B Ass y					
2_1	LHLDWA055WJKZ	Wire Holder, x1	R	AC .	AC.		
2 3	PSPAHA902WJZZ	Spacer, x2	S	AU	AU		
۷_٦	I OI TI ITTULYYJEE	opacei, Az	3				
3	CCOVAB480WJ01	Top Cover Ass'y	S				
3_1	Not Available	Top Cover Ass y			-		
3_1	JBTN-A524WJKA	Power Button	S		<u> </u>		
3 3	JBTN-A525WJKA	Operation Button	S		-		
3_4	MSPRCA068WJFW	Spring, for Power Button	S		-		
3 5	XEBS930P08000	Screw. x3	R	AA	AA		
				7.9.1	7 67		
4	CDAI-A290WJ01	Support Ass'y (LC-32GA8)	S				
4	CDAI-A290WJ02	Support Ass'y (LC-32BV8)	S		İ		
4.1	Not Available	Support Cover					
4 2	GDAI-A290WJSA	Support	S		ļ		
4 3	HDECQA600WJKA	Decoration Cover, x4	S		-		
			Ť		1		
5	CDAI-A287WJ01	Stand Base Ass'y (LC-32GA8)	S		†		
5	CDAI-A287WJ03	Stand Base Ass'y (LC-32BV8)	S		 		
5_1	Not Available	Base Cover					
5_2	LANGKA748WJZZ	Base Angle	S		!		
5_3	PSPAZA949WJZZ	Leg Cushion A, x4	S				
5_4	PSPAZA950WJZZ	Leg Cushion B, x4	S				
5_5	XEBS740P10000	Screw, x10	S				
-							
6	R1LK315T3LF15	32" LCD Panel Module	R				
T .			1				
7	GCOVAB488WJKA	Stand Cover	S				
8	HINDPB754WJSA	Model Label (LC-32GA8EE/EK/EF)	S				
8	HINDPB755WJSA	Model Label (LC-32GA8EE/EI)	S				
8	HINDPB756WJSA	Model Label (LC-32GA8RU)	S		<u> </u>		
8	HINDPB783WJSA	Model Label (LC-32BV8EE/EK/EF)	S		 		
8	HINDPB784WJSA	Model Label (LC-32BV8EE/EI)	S		1		
8	HINDPB785WJSA	Model Label (LC-32BV8RU)	S	-	:		
9	LANGKA638WJFW	LCD Angle-A, x2	S		1		
10	LANGKA639WJFW	LCD Angle-B, x2	S		1		
11	LANGKA672WJFW	LCD Angle-C, x1	S		+		
12	LANGTA263WJFW	Center Angle (L)	S		1		
13	LANGTA266WJFW	Stand Angle	S	:			
14	LANGTA267WJFW	Center Angle (R)	S	:			
15	LCHSMA323WJZZ	Chassis Tray	R		7		
16	LHLDW1123GEZZ	Wire Holder, x1	R		AB		

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
17	LHLDW1173CEZZ	Wire Holder, x2	R	AD	AD
18	LHLDW1205CEZZ	Wire Holder, x2	R	AC	AC
19	LHLDWA055WJKZ	Wire Holder, x1	R	AC	AC
20	LHLDWA137WJZZ	Wire Holder, x2	R	AB	AB
21	LHLDW1072GEZZ	Wire Holder, x1	R	AA	AA
22	PCUSGA009WJKZ	Cushion Spacer, x1	S		
23	PMLT-A316WJZZ	Spacer, x1	R	AM	AM
24	PMLT-A315WJZZ	Spacer, x2	R	AP	AP
25	PSLDMA974WJFW	Main PWB Shield	R	AG	AG
26	DUNTKD890FM02	Main Unit		-	-
27	DUNTKD604FM10	AV Unit	-	-	-
28	DUNTKD605FM14	Power Unit	-	-	-
29	DUNTKD606FMV0	Operation Unit	-		-
30	DUNTKD607FMV0	R/C, LED Unit	-	•	-
31	DUNTKD608FM02	Tuner Unit	-	-	
32	QCNW-E232WJQZ	Connecting Cord (KM:KEY-MAIN)	R	AG	AG
33	QCNW-E799WJQZ	Connecting Cord (LA)	R		-
34	QCNW-E234WJQZ	Connecting Cord (SH)	R	AH	AH
35	QCNW-E237WJPZ	Connecting Cord (LV)	S		
36	QEARPA212WJFW	Ground Part	R	AE	AE
37	QEARZA096WJFW	Ground Part	S		
38	TLABZB051WJZZ	POP Label	S		
39	Not Available	Serial No Label		-	
40	LX-BZA146WJF7	Screw, x4	S		
41	LX-BZA147WJF7	Screw, x4	S		
42	XBBS930P06000	Screw, x10	R	AA	AA
43	XBPS730P06WS0	Screw, x17	R	AA	AA
44	XBPS830P06000	Screw, x1	R	AA	AA
45	XEBS930P08000	Screw, x4	R	AA	AA
46	XEBS940P16000	Screw, x11	R	AB	AB
47	XEBSN40P10000	Screw, x5	R	AB	AB
48	XJPS730P08WS0	Screw, x14	R	AA	AA

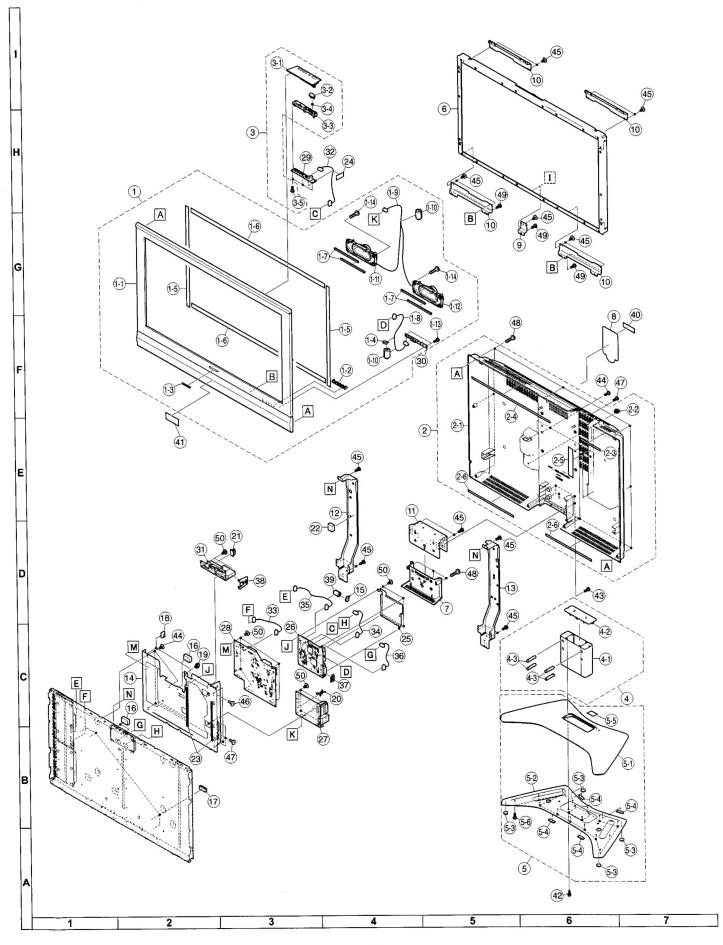
CABINET AND MECHANICAL PARTS (LC-32GA8E / LC-32BV8E)



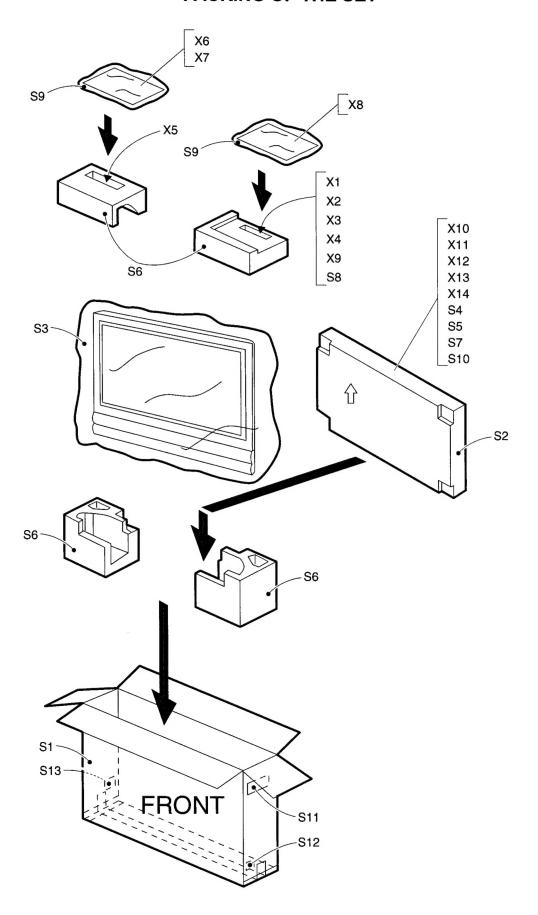
		AND MECHANICAL PARTS EK/EF/EI/RU LC-37BV8EE			2U)
REF No.	PARTS	DESCRIPTION			EX CODE
1	CCABAB440WJ01	Cabinet A Ass'y (LC-37BA8)	S		
1	CCABAB440WJ02	Cabinet A Ass'y (LC-37BV8)	S		
1_1	Not Available	Cabinet A	•		
1_2	GCOVAB478WJSA	R/C,LED Cover	S		
1_3	HBDGBA060WJSA	Badge, "SHARP"	S	1	
1_4	LHLDW1033PEZZ	Wire Holder, x1	R	AA	AA
1_5	PSPAHA858WJZZ	Mask Spacer, x2	S		
1_6	PSPAHA859WJZZ	Mask Spacer, x2	S		
1_7	PSPAZB211WJZZ	Spacer, x4	S		
1_8	QCNW-E413WJQZ	Connecting Cord	S		
1_9	QCNW-E801WJQZ	Connecting Cord	S		
1_10	RCORF0103CEZZ	Ferrite Core, x2	R	AK	AK
1_11	RSP-ZA184WJN1	Speaker (L)	S		
1_12	RSP-ZA184WJN2	Speaker (R)	S		
1_13	XEBS930P08000	Screw, x2	R	AA	AA
1_14	LX-HZA003WJFN	Screw, x2	R	AC	AC
2	CCABBA714WJ01	Cabinet B Ass'y	S		
2_1	Not Available	Cabinet B	-	-	•
2_2	LHLDWA055WJKZ	Wire Holder, x1	R	AC	AC
2_3	PSPAHA823WJZZ	Spacer-A, x1	S	1	
2_4	PSPAHA824WJZZ	Spacer-B, x1	S		
2_5	PSPAHA826WJZZ	Spacer-D, x2	S		
2_6	PSPAHA834WJZZ	Spacer-C, x2	S		
2_7	PSPAHA902WJZZ	Speaker for Spacer, x2	S		:
3	CCOVAB480WJ01	Top Cover Ass'y	S		
3_1	Not Available	Top Cover	-	-	-
3_2	JBTN-A524WJKA	Power Button	S		
3_3	JBTN-A525WJKA	Button	S		
3_4	MSPRCA068WJFW	Spring, for Power Button	S		
3_5	XEBS930P08000	Screw, x3	R	AA	AA
		i	\top		
4	CDAI-A290WJ01	Stand Support Ass'y (LC-37GA8)	S	1	
4	CDAI-A290WJ02	Stand Support Ass'y (LC-37BV8)	S		
4_1	Not Available	Stand Support	-		
4 2	GCOVAB717WJKA	Support Cover	S		
4_3	HDECQA600WJKA	Decoration Cover, x4	S		
			+	!	
5	CDAI-A301WJ01	Stand Base Ass'y (LC-37GA8)	S		
5	CDAI-A301WJ02	Stand Base Ass'y (LC-37BV8)	S		
5_1	Not Available	Base Cover		-	-
5_2	LANGKA635WJZZ	Base Angle	S		
5_3	PSPAZA949WJZZ	Leg Cushion A, x4	S		
5_4	PSPAZA950WJZZ	Leg Cushion B, x4	S	-	
5_5	XEBS740P10000	Screw, x10	S	+	
V_0	/1220110110000	00001,1110	+		
6	R1LK370T3LZ5BX	37" LCD Panel Module	R	EZ	EZ
7	GCOVAB488WJKA	Stand Cover	S		
8	HINDPB786WJSA	Model Label (LC-37BV8)	S		
8	HINDPB757WJSA	Model Label (LC-37GA8EE/EK/EF)	S		İ
8	HINDPB758WJSA	Model Label (LC-37GA8EE/EI)	S		-
1 8	HINDPB759WJSA	Model Label (LC-37GA8RU)	S		
9	LANGKA672WJFW	LCD Angle C, x1	S		
10	LANGKA675WJFW	LCD Angle, x4	S		
11	LANGTA266WJFW	Stand Angle	S		:
12	LANGTA268WJFW	Center Angle (L)	S		
13	LANGTA269WJFW	Center Angle (R)	S		-
14	LCHSMA323WJZZ	Chassis Tray	R		-
15	LHLDW1033CE00	Wire Holder, x1	R		A A
16	LHLDW1033CE00	Wire Holder, x2	R		AA AB
10	LUINALISOETT	TYTIE HUILEI, XZ	K	AD	AB

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
_	17	LHLDW1173CEZZ	Wire Holder, x4	R	AD	AD
	18	LHLDW1205CEZZ	Wire Holder, x2	R	AC	AC
	19	LHLDWA055WJKZ	Wire Holder, x1	R	AC	AC
	20	LHLDWA137WJZZ	Wire Holder, x2	R	AB	AB
	21	LHLDW1072GEZZ	Wire Holder, x1	R	AA	AA
	22	PCUSGA009WJKZ	Cushion Spacer, x1	S		
	23	PMLT-A315WJZZ	Spacer, x1	R	AP	AP
	24	PSHEFA018WJZZ	Sheet Spacer, x1	S		
	25	PSLDMA974WJFW	Main PWB Shield	R	AG	AG
	26	DUNTKD890FM03	Main Unit		-	•
	27	DUNTKD604FM10	AV Unit		-	-
_	28	DUNTKD605FM03	Power Unit	-		•
_	29	DUNTKD606FMV0	Operation Unit	-	-	•
	30	DUNTKD607FMV0	R/C, LED Unit	-	-	
	31	DUNTKD608FM02	Tuner Unit		-	
	32	QCNW-E412WJQZ	Connecting Cord	R	AG	AG
	33	QCNW-E415WJQZ	Connecting Cord	R	AP	AP
	34	QCNW-E237WJPZ	Connecting Cord	S		
	35	QCNW-E419WJQZ	Connecting Cord	R	AM	AM
	36	QCNW-E609WJQZ	Connecting Cord	R	AH	AH
	37	QEARPA212WJFW	Ground-Part	R	AE	AE
_	38	QEARZA096WJFW	Ground-Part	S		
	39	RCORFA023WJZZ	Ferrite Core, x1	R	AK	AK
	40	Not Available	Serial No Label	-	-	•
	41	TLABZB051WJZZ	POP Label	S		
	42	LX-BZA146WJF7	Screw, x4	S		
	43	LX-BZA147WJF7	Screw, x4	S		
	44	XBBS930P06000	Screw, x10	R	AA	AA
_	45	XBPS730P06WS0	Screw, x17	R	AA	AA
_	46	XBPS830P06000	Screw, x1	R	AA	AA
	47	XEBS930P08000	Screw, x4	R	AA	AA
Ī	48	XEBS940P16000	Screw, x11	R	AB	AB
	49	XEBSN40P10000	Screw, x5	R	AB	AB
-	50	XJPS730P08WS0	Screw, x14	R	AA	AA

CABINET AND MECHANICAL PARTS (LC-37GA8E / LC37BV8E))



PACKING OF THE SET



		PACKING PARTS LISTING	e e		Santa.
REF No.	PARTS	DESCRIPTION	*	SN CODE	EX COD
S1	SPAKCC697WJZZ	Packing Case (LC-32GA8EE/EK/EF/EI)	-	-	
S1		Packing Case (LC-37GA8EE/EK/EF/EI)	-		
S1		Packing Case (LC-32BV8EEE/EK/EF/EI)	-	-	
S1	SPAKCC754WJZZ	Packing Case (LC-37BV8E/RU)	-		
S1	SPAKCC793WJZZ	Packing Case (LC-32GA8RU,LC-32BV8RU)	-	-	
S1		Packing Case (LC-37GA8RU)	-	-	
S2	SPAKFA916WJZZ	Packing Case (Stand)	-		
		(LC-37GA8E/RU,LC-37BV8E/RU)			
S2	SPAKFB018WJZZ	Packing Case (Stand)	-	-	
		(LC-32GA8E/RU,LC-32BV8E/RU)			
S3	SPAKPA338WJZZ	Wrapping Paper	-	-	-
1		(LC-37GA8E/RU,LC-37BV8E/RU)			
S3	SPAKPA382WJZZ		-	-	
		(LC-32GA8E/RU,LC-32BV8E/RU)			
S4	SPAKPA601WJZZ	Wrapping Paper (Stand)	-		
S5		Wrapping Paper (Stand)	-		-
S6	SPAKXA919WJZZ		-		-
		(LC-32GA8E/RU,LC-32BV8E/RU)			
S6	SPAKXA920WJZZ	Buffer Material			
		(LC-37GA8E/RU,LC-37BV8E/RU)			
S7	SPAKFB019WJZZ				-
		(LC-32GA8E/RU)			
S7	SPAKFB026WJZZ	Buffer Material (Stand)	-	-	
		(LC-32BV8E/RU)			
S7	SPAKFB028WJZZ	Buffer Material (Stand)			
		(LC-37BV8E/RU)			
S7	SPAKFB043WJZZ	Buffer Material (Stand)		-	
		(LC-37GA8E/RU)			
S8	SSAKAA009WJZZ	Polyethylene Bag			
S9		Polyethylene Bag, x2			-
S10		Polyethylene Bag (Stand)			
S11	TLABKA002WJZZ	1			
S12	TLABSA050WJZZ				
		(LC-32/37GA8EF,LC-32/37BV8EF)			

		SERVICE JIGS (USE FOR SERVICING)			io.
REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
		EXTENSION CABLES			
	QCNW-E542WJZZ	23pins Board to Board	J		
	QCNW-E543WJZZ	9pins Board to Board	J		
	QCNW-E544WJZZ	15pins Board to Board	J		
	QCNW-E546WJZZ	7pins Board to Board	J		
		SOFTWARE UPGRADING JIG			
1	CKIT-0004WJV0	P55 VCTP SOFT UPDATING WITH WIRE 20 TO 3	S	BC	BT
1.1	QPWBX0004WJZZ	P55 I2C INTERFACE PWB	S	-	-
1.2	QCNWGA100WJZZ	WIRE 20 TO 3 PIN SOFT UPDATING P55	S	AM	AY
2	QCNWGA015WJPZ	Cable adaptor (DB9 male to mini-Din 9 pin male)	S	AG	AS

	SUPPLIED ACCESSORIES PARTS LISTING								
	REF No.	PARTS	DESCRIPTION	,	SN CODE	EX CODE			
-	X1	LHLDW0110CESB	Cable Clamp	S					
	X2	LHLDWA083WJ00	Cable Tie	S					
M	X3	QACCKA021WJPZ	AC Cord	S					
			(LC-32/37GA8EE/RU/EF/EI	S					
		4.11.41	LC-32/37BV8EE/RU/EF/EI	S					
A	X3	QACCBA073WJPZ	AC Cord	S					
			(LC-32/37GA8EK, LC-32/37BV8EK	S					
	X4	QCNWGA075WJPZ		S					
	X5	RRMCGA387WJSA	Remote Control Unit (LC-32/37GA8E/RU)	S					
	X5	RRMCGA499WJSB	Remote Control Unit (LC-32/37BV8E/RU)	S					
	X6	TGAN-A077WJZZ	Guarantee Card	S					
_			(LC-32/37GA8RU.LC-32/37BV8RU)						
	X6	TGAN-A342WJZZ	Guarantee Card	5	3				
_			(LC-32/37GA8EK) ,LC-32/37BV8EK)		1				
	X6	TGAN-A512WJZZ	Guarantee Card	15	3				
H	1		(LC-32/37GA8EK) ,LC-32/37BV8EK)						
Н	X7	TINS-C463WJZZ	Operation Manual	5	3				
H	-		(LC-32/37GA8EE/EK/EF/EI						
H			LC-32/37BV8EE/EK/EF/EI						
	X7	TINS-C464WJZZ	Operation Manual	İ	3				
-	1		(LC-32/37GA8EE/EF, LC-32/37BV8EE/EF)						
-	X8	TINS-C465WJZZ	Operation Manual	15	3				
H	1	1	(LC-32/37GA8EE, LC-32/37BV8EE)			-			
H	X7	TINS-C466WJZZ	Operation Manual		S				
H	1	11110 0 100110	(LC-32/37GA8RU, LC-32/37BV8RU)			1			
r	X9	Not Available	"AAA" size Battery, x2						
	X10	CDAI-A290WJ01	Stand Suport (LC-32/37GA8E/RU)	-	S	1			
H	X10	CDAI-A290WJ02	Stand Suport (LC-32/37BV8E/RU)		S	\top			
-	X11	CDAI-A287WJ01	Stand Base (LC-32GA8E/RU)		S	1			
	X11	CDAI-A287WJ03	Stand Base (LC-32BV8E/RU)		S	1			
1	X11	CDAI-A301WJ01	Stand Base (LC-37GA8E/RU)		S				
1	X11	CDAI-A301WJ02	Stand Base (LC-37BV8E/RU)		S	1			
H	X12	LX-BZA146WJF7	Screw, x4		S	-			
1	X13	LX-BZA147WJF7	Screw, x4		S	1			
1	X14	UKOGLA001WJZZ	Tool For Stand	-	S				